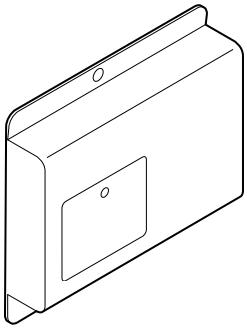
SHARP SERVICE MANUAL

CODE: 00ZMXFXX1/S1E



DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM OPTION
FACSIMILE EXPANSION KIT

MODEL MX-FXX1

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

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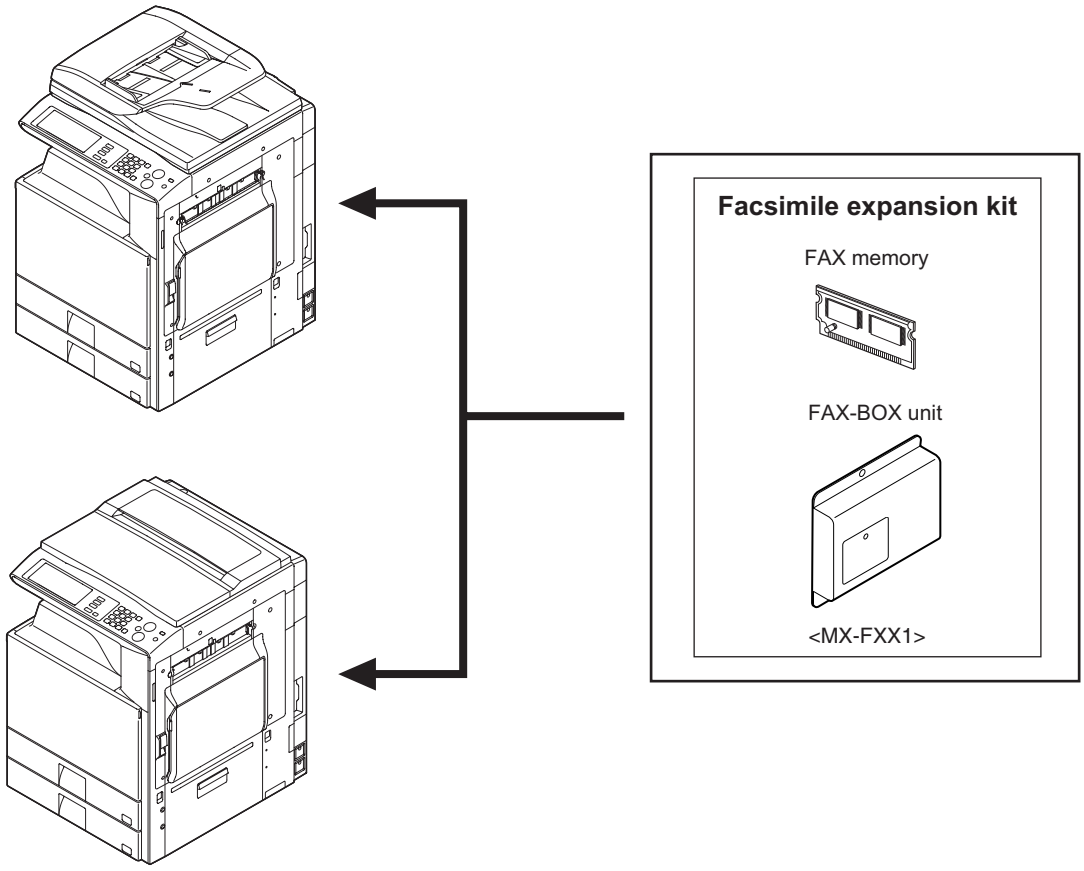
[1] PRODUCT OUTLINE

This unit provides the FAX function and the PC-FAX function when installed to the following machines:

1. Configuration



[2] SPECIFICATIONS

1. FAX function

A. Transmission method

Transmission time	Less than 3 sec (Super G3) Less than 7 sec (G3 ECM)
Compression/ expansion system	MH, MR, MMR, JBIG (Fixed to ECM for MMR or JBIG.)
Modem speed	33.6kbps → 2.4kbps automatic fallback
Resolution	8 x 3.85 line/mm, 8 x 7.7 line/mm, 8.15.4 line/mm, 16 x 15.4 line/mm (Standard memory is used for transmit/receive.)
Intercommunication	G3/Super G3: Standard (V.34, V.17, V.33, V.29, V.27ter)
Communication line	General telephone line (PSTN), ISDN (When TA is installed.) Private Branch Exchange (PBX)
ECM	Yes

B. Number of Support Line

Standard	1 line
Expansion	Not provided

C. Transmission Mode

RSPF/OC transmission switching	Yes (Switching during the reading is not feasible)

D. Image Quality/Image Process

Half tone reproduction	Equivalent to 256 levels (Valid only when monochrome document is scanned.)
Exposure adjustment	Auto / Manual (5 steps)
FAX quality selection	Standard (8 x 3.85 lines/mm (203.2 x 97.8dpi)) Fine (8 x 7.7 lines/mm (203.2 x 195.6dpi)) Super Fine (8 x 15.4 lines/mm (203.2 x 391dpi)) Ultra Fine (16 x 15.4 lines/mm (406.4 x 391dpi)) Half-tone (Combination with normal character is invalid.)

E. Record Size

Max. record width	293mm
Record size	(AB series) A3, B4, A4, A4R, B5, B5R, A5R (Inch series) 11 x 17, 8.5 x 13, 8.5 x 14, 8.5 x 11, 8.5 x 11R, 8.5 x 5.5R

* If the document length exceeds A3 size, it is divided and printed.

* For printing the list, A5R and 8.5 x 5.5R cannot be used.

F. Dial

Manual dialing	To be entered by 10-key, # key, * key
Re-dialing	The previous 8 items (max.) can be saved, and one of them can be selected. One-touch call is available.
One-touch dialing	999 items including the group dialing items
Group dialing	999 items including the one-touch dialing items
Program dialing	Max. 48 items
Chain dialing	Max. 64 digits including one-touch dialing, 10-key dialing, and pause.
Dial search	Alphabet order search, User index groups
Quick search	Yes
LDAP search	Yes
Sub address	Yes
Password	Yes
Memory box registration	Yes

* LDAP: Lightweight Directory Access protocol

G. Memory for Transmit/Receive

Standard	8M or 16M standard memory
Memory extended	8MB memory included in the package

H. Function

Transmit function	Calling function	Yes Requires the frequency setting for each destination.
	PBX function	Germany, France only
	Memory transmit	Yes (Definable destinations : 94 destinations)
	On-hook	Yes
	Quick online transmit	Yes
	Direct transmit	Yes
	Manual transmit	Yes
	Auto re-call mode	Yes
	Time indication function	Yes
	Sequential broadcasting function	Yes
	F code interface broadcasting indication function	Yes Only one interface station can be specified.
	F code interface broadcasting function	Yes
	F code confidential send function	Yes
	Polling	Yes Even with another company machine
	Sequential polling function	Yes Even with another company machine
	F-code polling	Yes
	Bulletin board	Yes
	F code bulletin board function	Yes
	Auto reduction transmit	Yes A3 → B4, A3 → A4, B4 → A4
	Rotation transmit	Yes Counterclockwise rotation of 90 degrees
	Duplex transmit	Yes
	Document transmit from OC function	Yes
	Long length original transmit	Only when RSPF is used. Transmission is enable up to 800mm.
	Mixed documents function	Only when RSPF is used.
	Zoom transmit	Yes
	2 in 1 transmit	Yes
	Card shot transmit	Only when transmitting from OC
	Thin paper scan function	Available except for duplex scan
	Edge erase transmit function	Yes Only for the fixed sizes
	Job build	Yes
	Page division transmit	Yes
	Cover	No
	Index	No
	Transmit message adding function	No
Receive function	Auto receive	Yes
	Manual receive	Yes
	DRD call function	Distinctive Ring Detection North America: Standard, Pattern 1 – 5 Australia/New Zealand/Hong Kong: ON/OFF (TEL/FAX)
	Memory receive	Yes
	Transfer function	Yes Number of registration: 1 item

Receive function	Specified receive function	Yes (Number of registration) Rejection numbers: Max.50 items
	Receive data print condition function	Yes
	Receive data staple setting/ Copy number setting	Yes
	Rotation receive	Yes Output by clockwise rotation of 90 degrees
	Divided receive	Yes Divided print is not made in duplex mode.
	Duplex receive	Yes
	F-code confidential receive	Yes
Special function	Print hold	Yes
	Document Admin	Yes
	Inbound Routing	Yes
	Sender registration function	Yes
	Sender print function	Yes
	On-hook dialing function	Yes
	Retransmit function	Yes
	Pause function	Yes Pause time is 1 – 15 sec.
	Sound volume setting function	Yes
	Tone pulse select function	10PPS, 20PPS, Tone, Auto (North America/Taiwan) * For the other destinations, set with the soft switch.
	External phone connection	Yes
	Memory remaining capacity check function	Yes Only the integral part is displayed.
	Back up	Yes
	Registered data read/write function	Yes
	Report/List	Yes
	Destination check function	Yes
	Broadcasting destination display function	Yes
	Transmit job change function	Yes
	Save-energy function	Yes
	Line monitor display function	Yes
	FAST	Yes Facsimile Automated Service Technology
	Time adjust function	Yes Summer time ON/OFF
	PC-FAX	Yes
	Color mode	No
	Sender registration function	Yes Number of registration: 1 for standard sender, Max. 200 for other users
	Default destination setting	No
	Unauthorized scan prevention function	Yes
	Filing-each-page function	No
	Re-operation function	Yes
	User account function	Yes Max. 200 items additionally to the default
	Counter function	Yes

2. Image send function

A. Mode

FAX	FAX to e-mail/FTP

B. System environment

	Copier memory (Local memory)	Printer memory (System Memory)	Data saving destination
Fax	768MB (Standard)	384MB (Standard) (G model) 640MB (Standard) (N model)	8MB

C. Image send function (Push send from the main unit)

(1) Support image

Mode	FAX
Compression method	MH, MR, MMR, JBIG

(2) Image processing

Mode	FAX
Original scanning color	B/W
Halftone reproduction	Equivalent of 256 steps
Density adjustment	Auto + 5 steps
Selection of image quality	Half tone (Black-white only) ON/OFF
Resolution (depends on file format/transmission method)	Standard character (203.2 x 97.8dpi) (half tone not allowed)
	Fine (203.2 x 195.6dpi)
	Super fine (203.2 x 391dpi)
	Ultra fine (406.4 x 391dpi)

(3) Specification of Addresses

Mode	FAX
Address specification	Specification by one-touch/group/ direct address entry. Entry from soft keyboard. (Scanner/ Internet Fax) Entry from 10-key. (Fax) Selection from LDAP server
Number of One-touch address key registration	Total (number of key): Maximum 999
Number of Group (1 key) address registtation	Number of Group (1 key) address registration : maximum 500 Number of Group key registration : 5000 (Total address number included in /999 key)
Program	48
Direct entry of addresses	Entry by 10-key, # key
Chain dial	Yes (pause key)
Resend	Call up nearest 8 addresses. *1
Shortcut for address selection (quick key)	Use the 10-key to call up registered numbers of addresses.
Sender name	--- (Selection from the list of default + 18 addresses as sender name)
Disable direct entry transmission *2	Yes
Disable PC- Fax sending	Yes
Disable Internet Fax sending	Yes

*1: Except for FTP, Desktop, SMB, USB memory, Broadcast.

*2: When disabled, the address registration is not allowed either.

(4) Specification of Multiple Addresses

Mode	FAX
Broadcast	Yes (500 destinations)
Request of serial transmission	Yes

* Broadcast transmission is allowed. (Monochrome only)

(5) Transmission function

		FAX
Memory transmission		94 destinations in all
On-hook		Yes
Quick online transmission		Yes
Direct transmission		Yes (Switching: Memory transmission ↔ Direct transmission)
Automatically-reduced transmission		Yes
Rotated transmission		Yes
Scaled transmission		Yes Enlargement/reduction is allowed only from a fixed size to another. Reduction may be done on the receiver side with Fax/Internet Fax sending.
Recall mode	Error	Yes
	Busy	Yes
		Number/time to be set up through system setup
Long original transmission		Yes Maximum of 800mm (single side only/black-white 2 values only)
Confidential transmission (Sharp mode)		No
Relay broadcast transmission (Sharp mode)		No
Large capacity original mode		Yes
Scanning of thin paper		Yes
Mixed originals feeder		Yes (Random + MIX)
Default date sender transmission		Yes (ON only)

(6) Reception function

	FAX
Automatic reception	Yes
Manual reception	No Switching from manual reception to automatic reception. (Allowed only for SEF and Japan)
Memory reception	Yes
Fixed size reduced reception	Yes
Specified size scaled reception	No
Rotated reception	Yes
Setting of received data print condition	Equal size print (partition not allowed) Equal size print (partition allowed) Equal or reduced size print
2-sided reception	Condition setting through system setting
2-in-1 reception	No
Automatic reduction setting upon receiving A3	Yes
Automatic reduction setting upon receiving letter	Yes
Reception from a specific number not allowed. (To be rejected)	Specified numbers only (50 numbers /20 digits)
External phone connection remote	Yes
Confidential reception (Sharp mode)	No
Received data bypass output	Yes
Index printing	No
Transfer function upon disabling of output.	Yes (1 receiver (of transfer) registration)
Internet Fax/Fax to e-mail (Transfer of Internet Fax/Fax reception data to e-mail, inbound routing)	Yes
Exit tray setting	Yes
Insertion of job separator sheet	No
Staple function of received data	Yes
Auto wake up print	Yes
Received data print hold *1	Yes
Color toner print when black toner runs out.	No

*1: This function saves all received data in memory and starts out put after password entry. (Confidential reception is excluded.) Setting only on the reciver side.

(7) Report/list function

	FAX
Image sending activity report	Yes Time-specified output Output with memory full * Maximum of 200 times including both transmission and reception
Transaction report	Yes
Address/phone number table	Yes
Group table	Yes
Program table	Yes
Memory box table (F code)	Yes
Communication original contents print	Always print/Upon error/no print
List of rejected reception numbers	Yes
Table of control record for each account	No

(8) Other Functions

	FAX
Time specification	Yes
Polling reception	Yes
Bulletin board transmission	Yes Up to 100 registrations allowed with bulletin board, confidential and relay broadcast all combined. (Free area : 1 registration) Setting of the number of transmission: 1/no limit.
Cover sheet function	No
Transmission message	No
Sender print	Yes
Sender selection	Yes
Page number print	Yes
Date print	Yes (Date can be expressed alternatively)
Polling protection function	Yes
Page partition transmission	Yes
Page connection	No
Confidential (receiver unit)	Yes (F code method)
Relay broadcast instructions	Yes (F code method)
Fax to e-mail (F code) *	Yes
Edge erase	Yes
Center erase	Yes
2 in 1	Yes
Card shot	Yes (Equivalent or enlargement up to the paper width. The maximum enlargement is not allowed to exceed 400%)
Forward data transmission/ reception (Document Admin)	Yes Data transmission by PC-Fax/PC-Internet Fax is allowed, too.

* This function means that e-mail address setteing on F code relay broadcast allowed.

(9) Transmission Method

Mode	FAX
Transmission time	2 seconds level (super G3/JBIG), 6 seconds level (G3 ECM)
Modem speed	Automatic fall-back : 33.6kbps → 2.4kbps
Intercommunication	Super G3/G3
Communication line	General membership telephone line (PSTN), independent business line (PBX), F net. (R-key for PBX setting: SEGA/SEF)
ECM	Yes

(10) Record Size

Mode	FAX
Maximum record width	293mm
Record size	A3 – A5/11 x 17 – 5.5 x 8.5

(11) F code communication

Mode	FAX
Sub-address	Yes (20 digits)
Password	Yes (20 digits)

(12) Registration-related settings

Mode	FAX
One-touch/group *1 E-mail FTP Desktop SMB FAX	999 destinations Use of LDAP allowed Up to 500 registered addresses for each group dial. Registered name in 18 full-size character (36 half-size characters) One-touch dial receiver number registration: within 64 digits for receiver number + sub-address + passcode (including "/").
Program	Registration of addresses (groups), settings (density, image quality) and special functions in one set is allowed. (48 of them)
Number of memory boxes	Registration of bulletin board/ confidential/relay broadcast is allowed up to 100. Registration name: 18 characters
Number of sender registration	1 (default) with 20 characters
Number of sender selection registration	Total: 18 registrations (20 characters) (Sender selection: In addition to default, 18 registrations allowed)
Registration of polling approval number	10 numbers/20 digits
Registration of Fax system number (Sharp mode)	No
Registration of Fax polling approval ID number (Sharp mode)	No
Fax relay ID registration (Sharp mode)	No
Quick key (short cut registration) *2	Yes (001 – 999)
Import/export of address book	Yes (By storage backup)
Black list (for SEF)	No

*1: Since scan/Internet Fax/Fax uses the common address book, the number of addresses allowed for registration is the sum total of all modes.

*2: Quick key is the function to select an address based on the registered number of each address within the book for address selection. Users should be able to select a quick key number.

(13) Telephone functions

Mode	FAX
On-hook function	Yes
Hold	No
Setting of pause time	Yes (1 – 15 seconds)
Telephone transmission during power outage	No (External telephone transmission allowed)
Tone pulse switching	10PPS, 20PPS, Tone, Auto (North America/Taiwan) * For the other destinations, set with the soft switch.

(14) Sound settings

Mode	Item	FAX
On-hook sound	Sound volume setting	Yes *1
Sound volume for calling	Sound volume setting	Yes *2
Line monitor sound	Sound volume setting	
Reception sound	Sound volume setting	
	Sound pattern	Yes *3
Transmission success sound	Sound volume setting	Yes *2
	Sound pattern	Yes *3
	Time setting for communication ending sound	Yes *4
Transmission and reception error sound	Sound volume setting	Yes *2
	Sound pattern	Yes *3
	Time setting for communication ending sound	Yes *5
Sound setting for end of original reading (image send)	Sound volume setting	Yes *1

*1: Large/middle/small. Setup by system setting.

*2: Large/middle/small/no sound. Setup by system setting.

*3: PATTERN 1/2/3/4. Setup by system setting. Different sound should be selectable for each of reception/transmission success/transmission and reception error.

*4: Setup by system setting. 5 steps of 2.0 – 4.0 seconds.

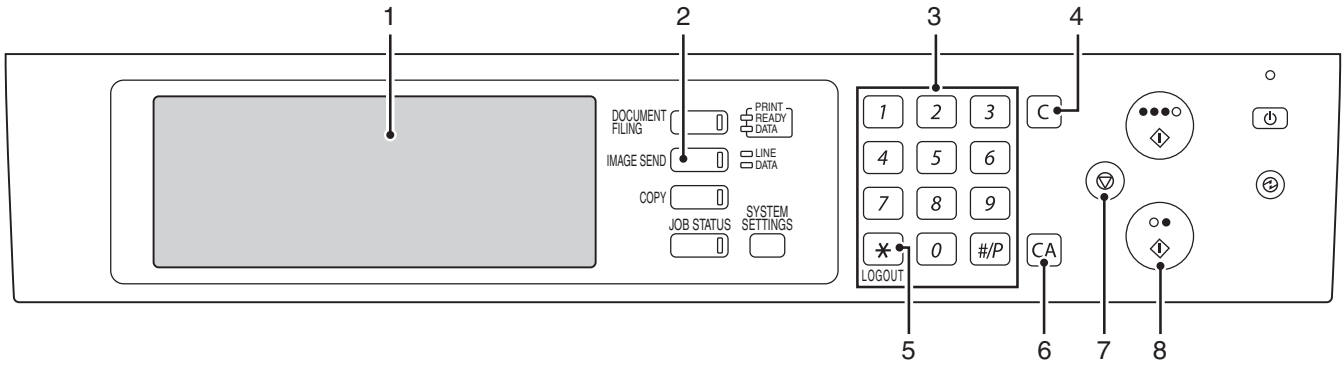
*5: Setup by system setting. 2-steps setting for every 0.3 or 0.7 second.

(15) Others

Mode	FAX
PC-FAX	Yes
FAST	Yes (SEC only)
Network FAST	No
Distinctive ring detection	Setting for each destination

[4] EXTERNAL VIEWS AND INTERNAL STRUCTURES

1. Operation panel

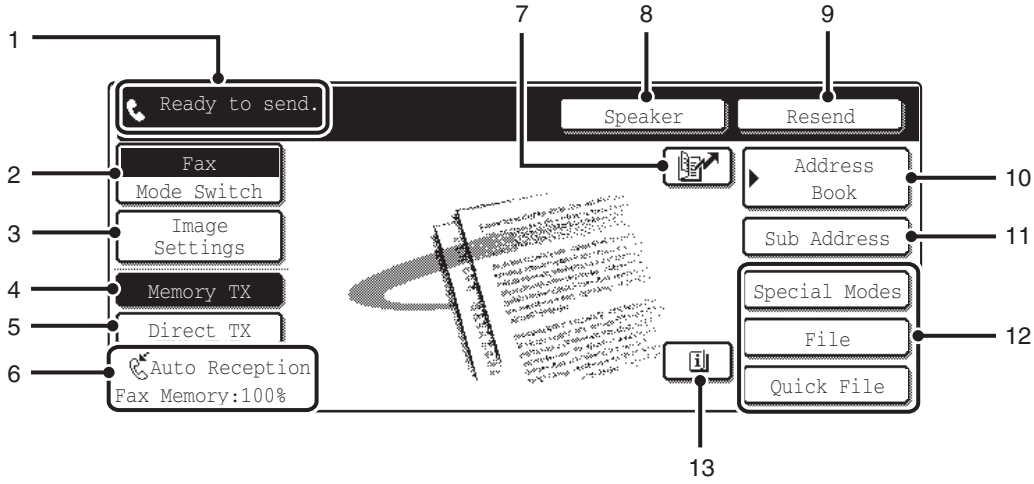


1	Touch panel	A message or a key is displayed on the LCD screen. Touch the displayed key with your finger to perform various operations. When the displayed key is touched, a sound is generated and the selected item is highlighted to confirm.
2	[IMAGE SEND] key	Press to switch to fax mode.
3	Numeric keys	Use to enter fax numbers and numerical settings.
4	[C] key (clear key)	Use to clear a mistake when entering fax numbers and numerical settings. One digit is cleared each time you press the key.
5	[*] key	This is used to produce tone signals when you are on a pulse dial line.
6	[CA] key (clear all key)	Use to cancel a transmission or programming operation. When this key is pressed, the operation is cancelled and you return to the initial screen described on the following page. This key is also used to cancel a resolution, paper size, or special function setting that was selected when sending a fax.
7	[STOP] key	Press this key to stop scanning of an original.
8	[BLACK COPY START] key	Press to begin scanning an original for fax transmission.

2. Touch panel of FAX mode

A. Base screen of FAX mode

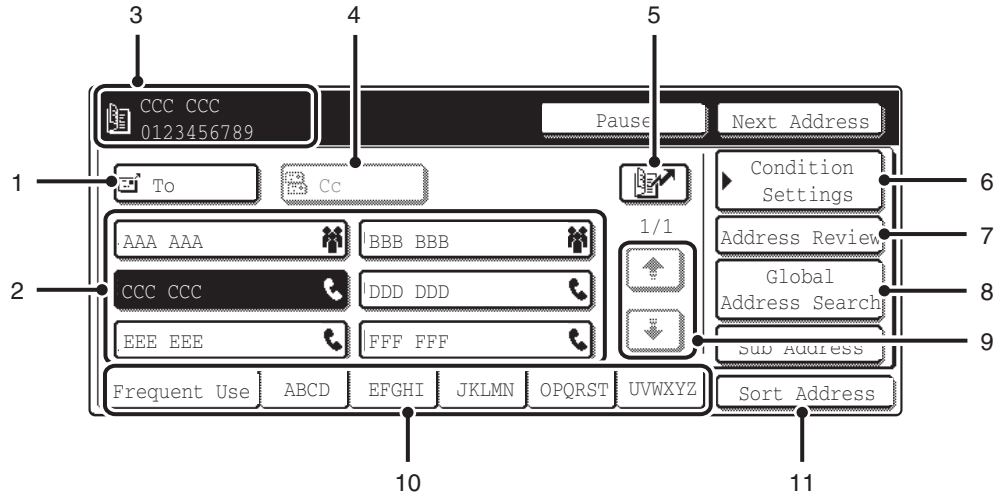
This screen is used to select settings and operations in fax mode.



1	**This shows various messages and the destinations that have been entered.** The icon at the left indicates fax mode.	9	**[Resend] key** Touch this key to redial a fax number. When entering a fax number to be dialed, this key changes to the [Next Address] key.
2	**[Mode Switch] key** Use these keys to change the mode of the image send function.	10	**[Address Book] key** Touch this key to dial using a one-touch key or group key. The Address Book screen appears when the key is touched.
3	**[Image Settings] key** Touch this key to select image settings (exposure, resolution, original size, and two-sided original).	11	**[Sub Address] key** Touch this key to enter a sub-address and passcode for F-code transmission.
4	**[Memory TX] key** This key is highlighted when a normal transmission (memory transmission mode) is performed.	12	**Customized keys** These three keys can be changed to show any three settings or functions that you like. The keys are changed in "Customize Key Setting" in the system settings for Fax (administrator). Normally the following keys appear: • [Special Modes] key Touch this key to use a convenient special mode. • [File] key, [Quick File] key Touch either key to use the File function or Quick File function of document filing mode.
5	**[Direct TX] key** Touch this key to send a fax by direct transmission.		
6	**This shows the currently selected fax reception mode and the amount of free memory remaining.**		
7	**key** Touch this key to use a speed dial number.		
8	**[Speaker] key** Touch this key to dial using the speaker. When entering a fax number to be dialed, the key changes to the [Pause] key. When entering a sub-address, the key changes to the [Space] key.	13	**key** This key appears when one or more special modes have been selected. Touch the key to display the selected special modes.

B. Address book screen

This screen is used to select a destination from the list of stored destinations.



1	**[To] key** Touch this key to enter the selected destination (one-touch key).	7	**[Address Review] key** Touch this key to view a list of the selected destinations.
2	**One-touch key display** This shows the one-touch keys of the destinations that have been stored in the Address Book. This manual refers to keys in which destinations and groups are stored as one touch keys. Keys that have fax numbers stored are indicated by . The number of one-touch keys displayed in one screen can be changed in the system settings.	8	**[Global Address Search] key** Touch this key to obtain a fax number from a global address book (LDAP server).
3	**This shows the destination that has been selected.**	9	**Page change keys** Use these keys to change pages when more one-touch keys have been stored than can be displayed on one page.
4	**[Cc] key** Not used in fax mode.		
5	**key** Touch this key to use a speed dial number.	10	**Index tab** Touch this to change indexes of the one-touch key display.
6	**[Condition Settings] key** Touch this key to select transmission settings and operations. When the key is touched, the base screen appears.	11	**[Sort Address] key** Touch this key to change the method of displaying the Address Book screen.

[5] SIMULATIONS, FAX SOFTWARE SWITCH

1. Simulation

A. General

There are the following simulation functions for grasping the machine operating conditions, troubleshooting, early detection of trouble causes, speedy setting and adjustments, and improvements in servicing.

1) Various adjustments
2) Setting of the specifications and functions
3) Canceling troubles
4) Operation check
5) Counters check, setting, clear
6) Machine operating conditions (operation hysteresis), data check, clear
7) Various (adjustments, setting, operation, counters, etc.) data transfer

The operating procedures and displays depend on the form of the operation panel of the machine.

(1) Basic operation

a. Starting the simulation

* Entering the simulation mode
  1) Copy mode key ON → Program key ON → Asterisk (*) key ON → CLEAR key ON → Asterisk (*) key ON → Ready for input of a main code of simulation
  2) Entering a main code with the 10-key → START key ON
  3) Entering a sub code with the 10-key → START key ON
  4) Select an item with the scroll key and the item key.
  5) The machine enters the mode corresponding to the selected item.

     Press START key or EXECUTE key to start the simulation operation.

     To cancel the current simulation mode or to change the main code and the sub code, press the user setup key.
* Canceling the simulation mode to return to the normal mode
  1) Press CA key.

(Note for the simulation mode)

Do not turn OFF the power switch on the operation panel when the machine is in the simulation mode.
If the power switch should be turned OFF in the simulation mode, a malfunction may be resulted. In this case, turn OFF/ON the main power source.

B. List of simulation codes

Code		Function (Purpose)	Section	Purpose
Main	Sub			
13	--	Used to cancel the self-diag "U1" trouble.	FAX	Clear/cancel (Trouble etc.)
22	11	Used to check the use frequency (send/receive) of FAX.	FAX	Adjustment/Setup/Operation data check
24	10	Used to clear the FAX counter.	–	Data clear
46	39	Used to execute the image send sharpness adjustment.	FAX	Adjustment
	40	Used to execute the FAX exposure adjustment. (Collective adjustment of all the modes).	MFP/FAX	Adjustment
	41	Used to execute the FAX exposure adjustment (Normal).	MFP/FAX	Adjustment
	42	Used to execute the FAX exposure adjustment (Fine text).	MFP/FAX	Adjustment
	43	Used to execute the FAX exposure adjustment (Super Fine).	MFP/FAX	Adjustment
	44	Used to execute the FAX exposure adjustment (Ultra Fine).	MFP/FAX	Adjustment
	45	Used to execute the FAX exposure level adjustment and the individual setting (600DPI).	FAX	Adjustment
50	27	Used to adjust the image loss of scanned image in the FAX/Scanner mode.	FAX/Scanner	Adjustment
66	1	Used to display the FAX-related soft SW on the LCD to allow changing the soft SW while checking with the LCD.	Setting	FAX
	2	Used to enter a country code and set the default value for the country code.	Setting	FAX
	3	Used to execute the read/write check of EEPROM on the MODEM controller, SDRAM, SRAM on the MFP controller, and flash ROM, and to display the results.	Operation test/Check	FAX
	4	Used to send the selected signals to the line and the main unit speaker. (Send level: max.)	Operation test/Check	FAX
	5	Used to send the selected signal to the line and the main unit speaker. (Send level: Soft SW setting) (For the kinds of send signals, refer to PART1 and PART2 of SIM66-04.)	Operation test/Check	FAX
	6	Used to print the confidential registration check table (BOX NO., BOX name, passcode. (If there is no confidential registration, no print is made.)	Data output/Check	FAX
	7	Used to output all image data saved in the image memory. (Confidential data are also outputted.)	Data output/Check	FAX
	8	Used to send the selected sound messages to the line and the speaker. (Send level: Max.)	Operation test/Check	FAX
	9	Used to send the selected sound message to the line and the speaker. (Send level: max.) * For details of sound messages, refer to the sound message table of SIM66-08.	Operation test/Check	FAX
	10	Used to clear all image data saved in the FAX image memory. (The confidential data are also cleared.)	Data clear	FAX

Code		Function (Purpose)	Section	Purpose
Main	Sub			
66	11	Used to send the selected signal at 300bps to the line and the speaker. (Send level: Max.)	Operation test/Check	FAX
	12	Used to send the selected signal at 300bps to the line and the speaker. (Send level: Soft SW setting) * For the kings of send signals at 300bps, refer to SIM66-11, 300bps send signal table.	Operation test/Check	FAX
	13	Used to register dial numbers for SIM66-14/15/16, Dial test. (Up to 20 digits can be registered.)	Setting	FAX
	14	Used to execute the dial pulse (10PPS) send test and to adjust the make time.	Adjustment	FAX
	15	Used to execute the dial pulse (20PPS) send test and to adjust the make time.	Adjustment	FAX
	16	Used to execute the DTFM signal send test and to adjust the send level.	Adjustment	FAX
	17	Used to send the DTMF signal to the line and the speaker. (Send level: Max.)	Operation test/Check	FAX
	18	Used to send the DTMF signal to the line and the speaker. (Send level: Soft SW setting)	Operation test/Check	FAX
	19	Used to write the telephone book data stored in HD into the FLASH ROM.	Backup	FAX
	20	Used to write the telephone book data stored in the FLASH ROM into HD.	Backup	FAX
	21	Used to print the selected items (various registration information, communication management information, file management information, system error, protocol monitor).	Check	FAX
	22	Used to set the handset sound volume. (This simulation can be executed even though the handset setting is set to NO. When, however, the handset is not installed, the sound volume cannot be checked.) (Japan model only)	Setting	FAX
	24	Used to clear the FAST save data.	Data clear	FAX
	25	Used to register the FAX number for MODEM dial-in.	Setting	FAX
	26	Used to register external telephone numbers for MODEM dial-in.	Setting	FAX
	29	Used to initialize the telephone book data (the one-touch registration table, the FTP/ Desktop expansion table, the group expansion table, the program registration table, the interface memory box table, the meta data, InboundRouting, and the DocumentAdmin table).	Clear	FAX
	30	Used to display the TEL/LIU status change, The display is highlighted by status change.	Operation test/Check	FAX
	31	Used to set ON/OFF the port for output to TEL/LIU.	Setting	FAX
	32	Used to check the fixed data received from the line and to display the result.	Operation test/Check	FAX
	33	Used to execute detection of various signals with the line connected and to display the detection result. When a signal is detected, the display is highlighted.	Operation test/Check	FAX
	34	Used to execute the send test and display the time required for sending image data in the test. Used to execute send test and display. (Unit: ms)	Operation test/Check	FAX
	36	Used to check send and receive data from the MODEM controller to the MFP controller or the data line or the command line individually.	Operation test/Check	FAX
	39	Used to check and change the destination setting saved in EEPROM of the FAX BOX.	Setting	FAX
	42	Used to rewrite the program to power control installed in the FAX BOX.	Setting	–
	43	Used to write the adjustment value into the power control installed in the FAX BOX.	Setting	FAX

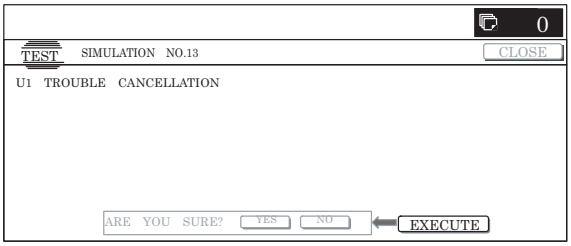
C. Details of simulation

13

13--

Purpose : Clear/cancel (Trouble etc.)
Function (Purpose) : Used to cancel the self-diag "U1" trouble.
Section : FAX
Item : Trouble
Operation/Procedure

1) Press [EXECUTE] button.
2) Press [YES] button to execute cancellation of the trouble.



22

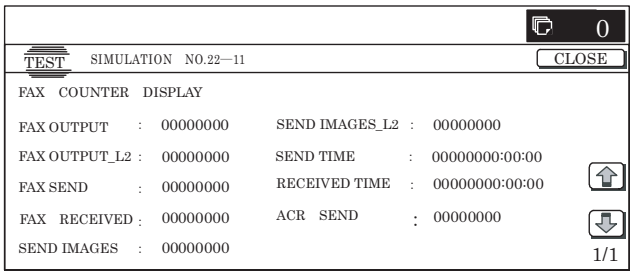
22-11

Purpose : Adjustment/Setup/Operation data check
Function (Purpose) : Used to check the use frequency (send/ receive) of FAX.
Section : FAX
Item : Counter
Operation/Procedure

The values of the FAX send counter and the FAX receive counter are displayed.

Press [COLOR] or [BLACK] button to print.

FAX OUTPUT	FAX print quantity counter (for line 1)
FAX OUTPUT_L2	FAX print quantity counter (for line 2)
FAX SEND	FAX send counter
FAX RECEIVED	FAX receive counter
SEND IMAGES	FAX send quantity counter (for line 1)
SEND IMAGES_L2	FAX send quantity counter (for line 2)
SEND TIME	FAX send time
RECEIVED TIME	FAX receive time
ACR SEND	Number of carrier prefix adding communications



24

24-10

Purpose : Data clear

Function (Purpose) : Used to clear the FAX counter.

Section : —

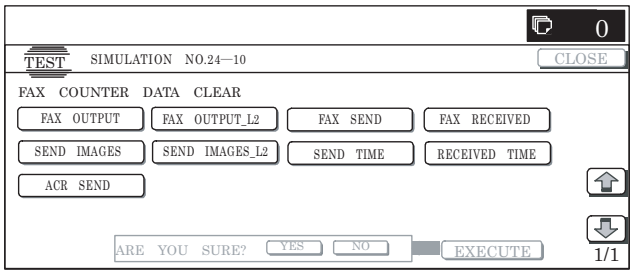
Item : Counter

Operation/Procedure

1) Select the item to be cleared with the buttons on the touch panel.
2) Press [EXECUTE] button.
3) Press [YES] button.

   The target counter is cleared.

FAX OUTPUT	Print quantity counter (for line 1)
FAX OUTPUT_L2	Print quantity counter (for line 2)
FAX SEND	Send counter
FAX RECEIVED	FAX receive counter
SEND IMAGES	FAX send quantity counter (for line 1)
SEND IMAGES_L2	FAX send quantity counter (for line 2)
SEND TIME	FAX send time
RECEIVED TIME	FAX receive time
ACR SEND	Number of carrier prefix attached communications



46

46-39

Purpose : Adjustment

Function (Purpose) : Used to execute the image send sharpness adjustment.

Section : FAX

Item : Image quality

Operation/Procedure

1) Select the set item with [↑] and [↓] buttons.

   The highlighted set value is switched and the value is displayed in the setting area.

   * If there is any item over [↑], an active display is made and item is shifted.

     If there is no item over [↑], the display grays out and the operation is invalid.

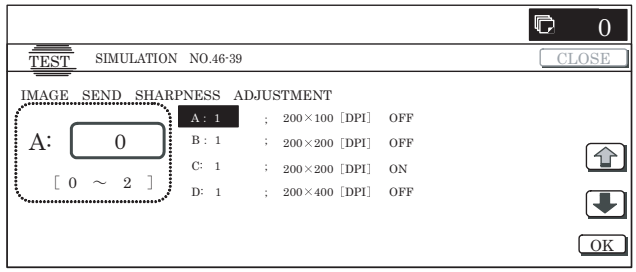
     If there is any item under [↓], an active display is made and item is shifted.

     If there is no item over [↓], the display grays out and the operation is invalid.
2) Enter the set value with 10-key.
   * Press [C] key to clear the entered values.
3) When [OK] button is pressed, the current entered value is saved to EEPROM and RAM.

* When [↑], [↓] button, [COLOR], or [BLACK] key is pressed, the current set values are saved to EEPROM and RAM.

<Set range and default value of each setup>

Item	Display	Content	Set range	Default value
A	200 x 100[DPI] OFF	200 x 100[DPI] half tone OFF	0 to 2	1
B	200 x 200[DPI] OFF	200 x 200[DPI] half tone OFF	0 to 2	1
C	200 x 200[DPI] ON	200 x 200[DPI] half tone ON	0 to 2	1
D	200 x 400[DPI] OFF	200 x 400[DPI] half tone OFF	0 to 2	1
E	200 x 400[DPI] ON	200 x 400[DPI] half tone ON	0 to 2	1
F	400 x 400[DPI] OFF	400 x 400[DPI] half tone OFF	0 to 2	1
G	400 x 400[DPI] ON	400 x 400[DPI] half tone ON	0 to 2	1
H	600 x 600[DPI] OFF	600 x 600[DPI] half tone OFF	0 to 2	1
I	600 x 600[DPI] ON	600 x 600[DPI] half tone ON	0 to 2	1



46-40

Purpose : Adjustment

Function (Purpose) : Used to execute the FAX exposure adjustment. (Collective adjustment of all the modes).

Section : MFP/FAX

Item : Image quality

Operation/Procedure

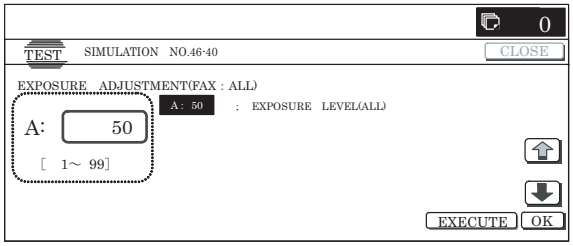
1) Enter the set value with 10-key.
   * When [C] key is pressed, the entered value is cleared.
2) When [EXECUTE] button is pressed, it is highlighted and the current set value is saved to EEPROM and RAM. Printing for the adjustment is started.

   After completion of printing, [EXECUTE] button returns to the normal display.
   * When [OK] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.

* When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] button is pressed during printing, the operation is interrupted.

<Set range and default value of each setup>

Item	Display item & Detail of display	Content	Set range	Default value
A	EXPOSURELEVEL (ALL)	Exposure data value (Collective)	1 to 99	50



46-41

Purpose : Adjustment

Function (Purpose) : Used to execute the FAX exposure adjustment (Normal).

Section : MFP/FAX

Item : Image quality

Operation/Procedure

1) Select the set item with [↑] and [↓] buttons.

   The highlighted set value is switched and the value is displayed in the setting area.

   If there is no item over [↓], the display grays out and the operation is invalid.

   * If there is any item over [↑], an active display is made and item is shifted.

     If there is no item over [↑], the display grays out and the operation is invalid.

     If there is any item under [↓], an active display is made and item is shifted.

     If there is no item over [↓], the display grays out and the operation is invalid.

2) Enter the set value with 10-key.

   * When [C] key is pressed, the entered value is cleared.

3) When [EXECUTE] button is pressed, it is highlighted and the current set value is saved to EEPROM and RAM. Printing for the adjustment is started.

   After completion of printing, [EXECUTE] button returns to the normal display.

   * When [↑], [↓], [OK] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.

* When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] button is pressed during printing, the operation is interrupted.

<Set range and default value of each setup>

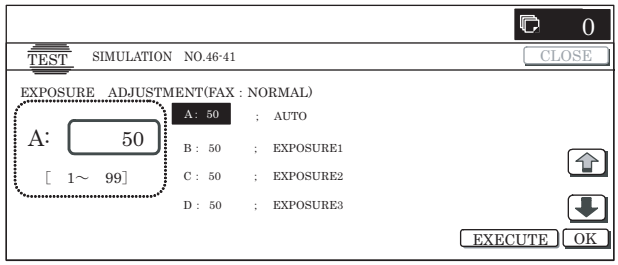
Item	Display item & Detail of display	Content	Set range	Default value
A	AUTO	Auto	1 to 99	50
B	EXPOSURE1	Exposure 1	1 to 99	50
C	EXPOSURE2	Exposure 2	1 to 99	50
D	EXPOSURE3	Exposure 3	1 to 99	50
E	EXPOSURE4	Exposure 4	1 to 99	50
F	EXPOSURE5	Exposure 5	1 to 99	50
G	EXECUTE MODE	AUTO	Print mode Auto	1	1 (AUTO)
		EXP1	Exposure 1	2	
		EXP2	Exposure 2	3	
		EXP3	Exposure 3	4	
		EXP4	Exposure 4	5	
		EXP5	Exposure 5	6	

* Items G are displayed as "Display item: Detail of display."

  Example: EXECUTE MODE: AUTO

<Reflection to item G after settlement of values>

When [EXECUTE] key is pressed after changing and settlement of exposure adjustment values A to F, the data are saved to EEPROM and RAM and set to item G at the same time.



46-42

Purpose : Adjustment

Function (Purpose) : Used to execute the FAX exposure adjustment (Fine text).

Section : MFP/FAX

Item : Image quality

Operation/Procedure

1) Select the set item with [↑] and [↓] buttons.

   The highlighted set value is switched and the value is displayed in the setting area.

   * If there is any item over [↑], an active display is made and item is shifted.

     If there is no item over [↑], the display grays out and the operation is invalid.

     If there is any item under [↓], an active display is made and item is shifted.

     If there is no item over [↓], the display grays out and the operation is invalid.

2) Enter the set value with 10-key.

   * When [C] key is pressed, the entered value is cleared.

3) When [EXECUTE] button is pressed, it is highlighted and the current set value is saved to EEPROM and RAM. Printing for the adjustment is started.

   After completion of printing, [EXECUTE] button returns to the normal display.

   * When [↑], [↓], [OK] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.

   * When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] button is pressed during printing, the operation is interrupted.

<Set range and default value of each setup>

Item	Display item & Detail of display	Content	Set range	Default value
A	AUTO	Fine/Auto	1 to 99	50
B	EXPOSURE1	Fine/Exposure 1	1 to 99	50
C	EXPOSURE2	Fine/Exposure 2	1 to 99	50
D	EXPOSURE3	Fine/Exposure 3	1 to 99	50
E	EXPOSURE4	Fine/Exposure 4	1 to 99	50
F	EXPOSURE5	Fine/Exposure 5	1 to 99	50
G	AUTO H_TONE	Fine/Auto/Half tone	1 to 99	50

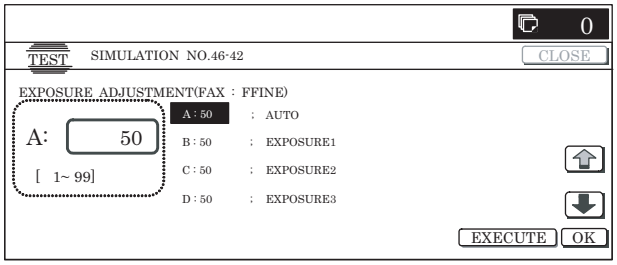
Item	Display item & Detail of display		Content		Set range		Default value
H	EXPOSURE1 H_TONE		Fine/Exposure 1/Half tone		1 to 99		50
I	EXPOSURE2 H_TONE		Fine/Exposure 2/Half tone		1 to 99		50
J	EXPOSURE3 H_TONE		Fine/Exposure 3/Half tone		1 to 99		50
K	EXPOSURE4 H_TONE		Fine/Exposure 4/Half tone		1 to 99		50
L	EXPOSURE5 H_TONE		Fine/Exposure 5/Half tone		1 to 99		50
M	EXECUTE MODE	AUTO	Print mode	Fine/Auto	1 to 12	1	1 (AUTO)
		EXP1		Fine/Exposure 1		2	
		EXP2		Fine/Exposure 2		3	
		EXP3		Fine/Exposure 3		4	
		EXP4		Fine/Exposure 4		5	
		EXP5		Fine/Exposure 5		6	
		AUTO H_TONE		Fine/Auto/Half tone		7	
		EXP1 H_TONE		Fine/Exposure 1/Half tone		8	
		EXP2 H_TONE		Fine/Exposure 2/Half tone		9	
		EXP3 H_TONE		Fine/Exposure 3/Half tone		10	
		EXP4 H_TONE		Fine/Exposure 4/Half tone		11	
		EXP5 H_TONE		Fine/Exposure 5/Half tone		12	

* Items M are displayed as "Display item : Detail of display."

Example: EXECUTE MODE: AUTO

<Reflection to item M after settlement of the values>

When [EXECUTE] button is pressed after changing and settlement of the exposure adjustment values A to L, the data are saved to EEPROM and RAM and reflected to item M at the same time.



46-43

Purpose : Adjustment

Function (Purpose) : Used to execute the FAX exposure adjustment (Super Fine).

Section : MFP/FAX

Item : Image quality

Operation/Procedure

1) Select the set item with [↑] and [↓] buttons.

   The highlighted set value is switched and the value is displayed in the setting area.

   * If there is any item over [↑], an active display is made and item is shifted.

   If there is no item over [↑], the display grays out and the operation is invalid.

   If there is any item under [↓], an active display is made and item is shifted.

   If there is no item over [↓], the display grays out and the operation is invalid.

2) Enter the set value with 10-key.

   * When [C] key is pressed, the entered value is cleared.

3) When [EXECUTE] button is pressed, it is highlighted and the current set value is saved to EEPROM and RAM. Printing for the adjustment is started.

   After completion of printing, [EXECUTE] button returns to the normal display.

   * When [↑], [↓], [OK] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.

   * When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] button is pressed during printing, the operation is interrupted.

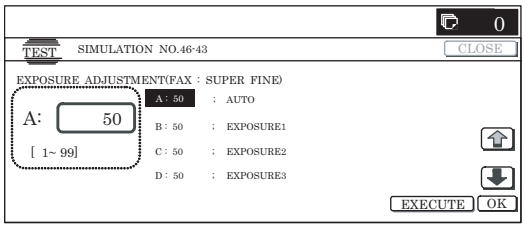
<Set range and default value of each setup>

Item	Display item & Detail of display		Content		Set range		Default value
A	AUTO		Super Fine/Auto		1 to 99		50
B	EXPOSURE1		Super Fine/Exposure 1		1 to 99		50
C	EXPOSURE2		Super Fine/Exposure 2		1 to 99		50
D	EXPOSURE3		Super Fine/Exposure 3		1 to 99		50
E	EXPOSURE4		Super Fine/Exposure 4		1 to 99		50
F	EXPOSURE5		Super Fine/Exposure 5		1 to 99		50
G	AUTO H_TONE		Super Fine/Auto/Half tone		1 to 99		50
H	EXPOSURE1 H_TONE		Super Fine/Exposure 1/Half tone		1 to 99		50
I	EXPOSURE2 H_TONE		Super Fine/Exposure 2/Half tone		1 to 99		50
J	EXPOSURE3 H_TONE		Super Fine/Exposure 3/Half tone		1 to 99		50
K	EXPOSURE4 H_TONE		Super Fine/Exposure 4/Half tone		1 to 99		50
L	EXPOSURE5 H_TONE		Super Fine/Exposure 5/Half tone		1 to 99		50
M	EXE-CUTE MODE	AUTO	Print mode	Super Fine/Auto	1 to 12	1	1 (AUTO)
		EXP1		Super Fine/Exposure 1		2	
		EXP2		Super Fine/Exposure 2		3	
		EXP3		Super Fine/Exposure 3		4	
		EXP4		Super Fine/Exposure 4		5	
		EXP5		Super Fine/Exposure 5		6	
		AUTO H_TONE		Super Fine/Auto/Half tone		7	
		EXP1 H_TONE		Super Fine/Exposure 1/Half tone		8	
		EXP2 H_TONE		Super Fine/Exposure 2/Half tone		9	
		EXP3 H_TONE		Super Fine/Exposure 3/Half tone		10	
		EXP4 H_TONE		Super Fine/Exposure 4/Half tone		11	
		EXP5 H_TONE		Super Fine/Exposure 5/Half tone		12	

* Items M are displayed as "Display item: Detail of display."
  Example: EXECUTE MODE: AUTO

<Reflection to item M after settlement of the values>

When [EXECUTE] button is pressed after changing and settlement of the exposure adjustment values A to L, the data are saved to EEPROM and RAM and reflected to item M at the same time.



46-44

Purpose : Adjustment

Function (Purpose) : Used to execute the FAX exposure adjustment (Ultra Fine).

Section : MFP/FAX

Item : Image quality

Operation/Procedure

1) Select the set item with [↑] and [↓] buttons.
   The highlighted set value is switched and the value is displayed in the setting area.
   * If there is any item over [↑], an active display is made and item is shifted.
     If there is no item over [↑], the display grays out and the operation is invalid.
     If there is any item under [↓], an active display is made and item is shifted.
     If there is no item over [↓], the display grays out and the operation is invalid.
2) Enter the set value with 10-key.
   * When [C] key is pressed, the entered value is cleared.
3) When [EXECUTE] button is pressed, it is highlighted and the current set value is saved to EEPROM and RAM. Printing for the adjustment is started.
   After completion of printing, [EXECUTE] button returns to the normal display.
   * When [↑], [↓], [OK] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.
   * When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] button is pressed during printing, the operation is interrupted.

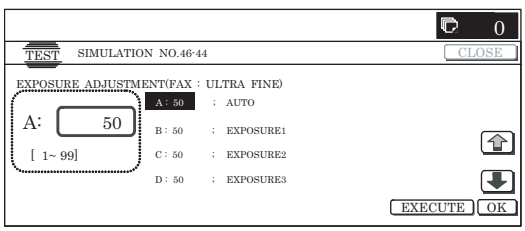
<Set range and default value of each setup>

Item	Display item & Detail of display		Content		Default value		Default value	Writing
A	AUTO		Ultra Fine/Auto		1 to 99		50	YES
B	EXPOSURE1		Ultra Fine/Exposure 1		1 to 99		50	YES
C	EXPOSURE2		Ultra Fine/Exposure 2		1 to 99		50	YES
D	EXPOSURE3		Ultra Fine/Exposure 3		1 to 99		50	YES
E	EXPOSURE4		Ultra Fine/Exposure 4		1 to 99		50	YES
F	EXPOSURE5		Ultra Fine/Exposure 5		1 to 99		50	YES
G	AUTO H_TONE		Ultra Fine/Auto/Half tone		1 to 99		50	YES
H	EXPOSURE1 H_TONE		Ultra Fine/Exposure 1/Half tone		1 to 99		50	YES
I	EXPOSURE2 H_TONE		Ultra Fine/Exposure 2/Half tone		1 to 99		50	YES
J	EXPOSURE3 H_TONE		Ultra Fine/Exposure 3/Half tone		1 to 99		50	YES
K	EXPOSURE4 H_TONE		Ultra Fine/Exposure 4/Half tone		1 to 99		50	YES
L	EXPOSURE5 H_TONE		Ultra Fine/Exposure 5/Half tone		1 to 99		50	YES
M	EXECUTE MODE	AUTO	Print mode	Ultra Fine/Auto	1 to 12	1	1 (AUTO)	NO
		EXP1		Ultra Fine/Exposure 1		2		
		EXP2		Ultra Fine/Exposure 2		3		
		EXP3		Ultra Fine/Exposure 3		4		
		EXP4		Ultra Fine/Exposure 4		5		
		EXP5		Ultra Fine/Exposure 5		6		
		AUTO H_TONE		Ultra Fine/Auto/Half tone		7		
		EXP1 H_TONE		Ultra Fine/Exposure 1/Half tone		8		
		EXP2 H_TONE		Ultra Fine/Exposure 2/Half tone		9		
		EXP3 H_TONE		Ultra Fine/Exposure 3/Half tone		10		
		EXP4 H_TONE		Ultra Fine/Exposure 4/Half tone		11		
		EXP5 H_TONE		Ultra Fine/Exposure 5/Half tone		12		

* Items M are displayed as "Display item: Detail of display."
  Example: EXECUTE MODE: AUTO

<Reflection to item M after settlement of values>

When [EXECUTE] key is pressed after changing and settlement of exposure adjustment values A to L, the data are saved to EEPROM and RAM and set to item M at the same time.



46-45

Purpose : Adjustment

Function (Purpose) : Used to execute the FAX exposure level adjustment and the individual setting (600DPI).

Section : FAX

Item : Image quality

Operation/Procedure

1) Select the set item with [↑] and [↓] buttons.
   The highlighted set value is switched and the value is displayed in the setting area.
   * If there is any item over [↑], an active display is made and item is shifted.
     If there is no item over [↑], the display grays out and the operation is invalid.

If there is any item under [↓], an active display is made and item is shifted.

If there is no item over [↓], the display grays out and the operation is invalid.

2) Enter the set value with 10-key.
   * When [C] key is pressed, the entered value is cleared.
3) When [EXECUTE] button is pressed, it is highlighted and the current set value is saved to EEPROM and RAM. Printing for the adjustment is started.

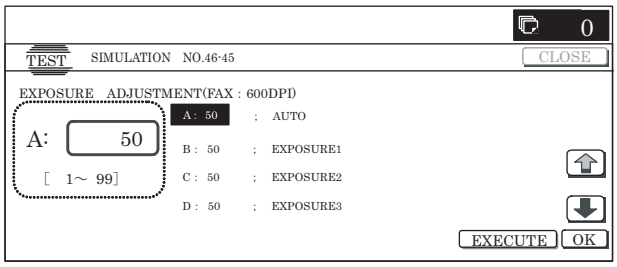
   After completion of printing, [EXECUTE] button returns to the normal display.

* When [↑], [↓], [OK] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.
  * When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] button is pressed during printing, the operation is interrupted.

<Set range and default value of each setup>

Item	Display item & Detail of display		Content		Set range		Default value	Writing
A	AUTO		600dpi/Auto		1 to 99		50	YES
B	EXPOSURE1		600dpi/Exposure 1		1 to 99		50	YES
C	EXPOSURE2		600dpi/Exposure 2		1 to 99		50	YES
D	EXPOSURE3		600dpi/Exposure 3		1 to 99		50	YES
E	EXPOSURE4		600dpi/Exposure 4		1 to 99		50	YES
F	EXPOSURE5		600dpi/Exposure 5		1 to 99		50	YES
G	AUTO H_TONE		600dpi/Auto/Half tone		1 to 99		50	YES
H	EXPOSURE1 H_TONE		600dpi/Exposure 1/Half tone		1 to 99		50	YES
I	EXPOSURE2 H_TONE		600dpi/Exposure 2/Half tone		1 to 99		50	YES
J	EXPOSURE3 H_TONE		600dpi/Exposure 3/Half tone		1 to 99		50	YES
K	EXPOSURE4 H_TONE		600dpi/Exposure 4/Half tone		1 to 99		50	YES
L	EXPOSURE5 H_TONE		600dpi/Exposure 5/Half tone		1 to 99		50	YES
M	EXECUTE MODE	AUTO	Print mode	600dpi/Auto	1 to 12	1	1 (AUTO)	NO
		EXP1		600dpi/Exposure 1		2		
		EXP2		600dpi/Exposure 2		3		
		EXP3		600dpi/Exposure 3		4		
		EXP4		600dpi/Exposure 4		5		
		EXP5		600dpi/Exposure 5		6		
		AUTO H_TONE		600dpi/Auto/Half tone		7		
		EXP1 H_TONE		600dpi/Exposure 1/Half tone		8		
		EXP2 H_TONE		600dpi/Exposure 2/Half tone		9		
		EXP3 H_TONE		600dpi/Exposure 3/Half tone		10		
		EXP4 H_TONE		600dpi/Exposure 4/Half tone		11		
		EXP5 H_TONE		600dpi/Exposure 5/Half tone		12		

* Items M are displayed as "Display item: Detail of display."
  Example: EXECUTE MODE: AUTO



Operation/Procedure

1) Use [FAX] button and [SCANNER] button to select the mode.
2) Select the set item with [↑] and [↓] buttons.

   The highlighted section of the set value is switched and displayed on the set setting area.
   * If there is any item over [↑], an active display is made and item is shifted.

     If there is no item over [↑], the display grays out and the operation is invalid.

     If there is any item under [↓], an active display is made and item is shifted.

     If there is no item over [↓], the display grays out and the operation is invalid.
3) Enter the set value with 10-key.
   * Press [C] key to clear the entered values.
4) When [OK] button is pressed, the current entered value is saved to EEPROM and RAM.
   * When [↑], [↓] button, [COLOR], or [BLACK] key is pressed, the data are saved to EEPROM and RAM.

* When [CLOSE] button is pressed, the display is shifted to the copy basic screen of simulation.
* Copying can be performed also by pressing [COLOR]/[BLACK] key.

50

50-27

Purpose : Adjustment

Function (Purpose) : Used to adjust the image loss of scanned image in the FAX/Scanner mode.

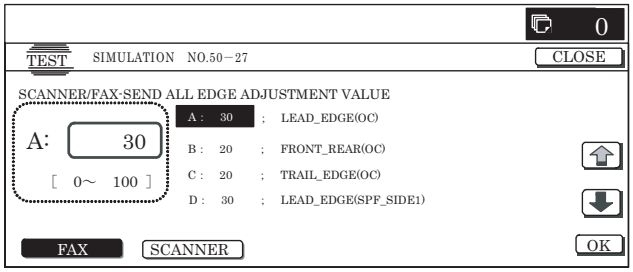
Section : FAX/Scanner

Item : Image quality

<Set range and default value of each setup>

	Item	Display item		Description	Set range	Default value
FAX send	A	Image loss setting OC	LEAD_EDGE (OC)	OC lead edge image loss setting	0 to 100	30 (3mm)
	B		FRONT_REAR (OC)	OC side image loss setting	0 to 100	20 (2mm)
	C		TRAIL_EDGE (OC)	OC rear edge image loss setting	0 to 100	20 (2mm)
	D	Image loss setting SPF SIDE1	LEAD_EDGE (SPF_SIDE1)	Front surface lead edge image loss setting	0 to 100	20 (2mm)
	E		FRONT_REAR (SPF_SIDE1)	Front surface side image loss setting	0 to 100	20 (2mm)
	F		TRAIL_EDGE (SPF_SIDE1)	Front surface rear edge image loss setting	0 to 100	30 (3mm)
	G	Image loss setting SPF SIDE2	LEAD_EDGE (SPF_SIDE2)	Back surface lead edge image loss setting	0 to 100	20 (2mm)
	H		FRONT_REAR (SPF_SIDE2)	Back surface side image loss setting	0 to 100	20 (2mm)
	I		TRAIL_EDGE (SPF_SIDE2)	Back surface rear edge image loss setting	0 to 100	30 (3mm)
SCANNER mode (FAX, other than COPY)	A	Image loss setting OC	LEAD_EDGE(OC)	OC lead edge image loss setting	0 to 100	0 (0mm)
	B		FRONT_REAR(OC)	OC side image loss setting	0 to 100	0 (0mm)
	C		TRAIL_EDGE(OC)	OC rear edge image loss setting	0 to 100	0 (0mm)
	D	Image loss setting SPF SIDE1	LEAD_EDGE(SPF_SIDE1)	Front surface lead edge image loss setting	0 to 100	0 (0mm)
	E		FRONT_REAR(SPF_SIDE1)	Front surface side image loss setting	0 to 100	0 (0mm)
	F		TRAIL_EDGE(SPF_SIDE1)	Front surface rear edge image loss setting	0 to 100	0 (0mm)
	G	Image loss setting SPFSIDE2	LEAD_EDGE(SPF_SIDE2)	Back surface lead edge image loss setting	0 to 100	0 (0mm)
	H		FRONT_REAR(SPF_SIDE2)	Back surface side image loss setting	0 to 100	0 (0mm)
	I		TRAIL_EDGE(SPF_SIDE2)	Back surface rear edge image loss setting	0 to 100	0 (0mm)

* A to I: The greater the adjustment value is, the greater the image loss is. 1step=0.1mm



66

66-1

Purpose : Setting

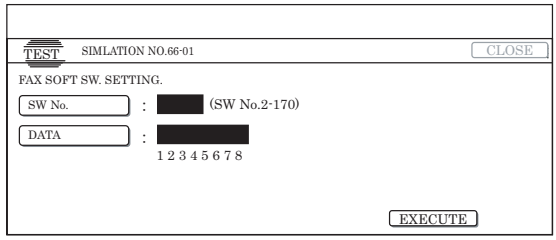
Function (Purpose) : Used to display the FAX-related soft SW on the LCD to allow changing the soft SW while checking with the LCD.

Section : FAX

Item : Setting

Operation/Procedure

1) When the machine enters Simulation 66-01, the screen on the right is displayed.
2) When [SW NO] is entered with 10-key, "6" is displayed in the column of [SW NO].
   * (In this example, "6" is entered.)
   * (The range of value to be entered is 2 to 170.)
   * When [C] key is pressed, the entered value of [SW NO] is cleared.
3) When [DATA] button is pressed, the data of soft SW No. 6 are displayed.
   * When [SW NO] button is pressed, the display returns to the initial screen.
4) The data of soft SW can be changed with 10-key.
   * When 10-key corresponding to the bit is pressed, the bit data are displayed as follows:
     [1] → [0]
     [0] → [1]
   * When [SW NO] button is pressed, the display returns to the initial screen.
5) When [EXECUTE] button is pressed, it is highlighted and the setting is saved.
   After saving the setting, [EXECUTE] button returns to the normal display.



66-2

Purpose : Setting

Function (Purpose) : Used to enter a country code and set the default value for the country code.

Section : FAX

Item : Setting

Operation/Procedure

1) When the machine enters Simulation 66-02, the following screen is displayed.
   * When [DEST CODE] button is pressed, the display is shifted to the country code list screen.
   * The country code shift screen is shown on the next page.
   * The currently set country code is displayed in the column of "PRESENT:".
2) Enter the country code (8 digits) with 10-key([0]/[1]). The entered country code is displayed in the column of "NEW:" and [SET] key becomes active.
   * When [C] key is pressed, the column of “NEW:” is cleared.
3) When [SET] button is pressed after entering the country code, [EXECUTE] button becomes active. The country code is displayed in the column of "PRESENT:", and the column of "NEW:" is cleared.
   * When [C] key is pressed, the display returns to the initial setting screen.
4) When [EXECUTE] button is pressed, it is highlighted and [YES] and [NO] buttons become active. The country name is displayed on the tile line.
   * When [NO] button is pressed, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons become inactive.

5) When [YES] button is pressed, it is highlighted and the soft SW corresponding to the country code is initialized.
   * During clearing the FAX-related soft SW, [EXECUTE] and [YES] buttons are highlighted.
6) After completion of initialization of the soft SW, [EXECUTE], [YES], and [NO] buttons become inactive.
   * When [CA] key is pressed after completion of initialization of the soft SW, the whole machine is reset.

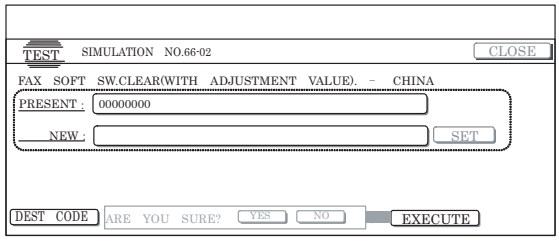
Operation/Procedure (Shifting to the country page)

* When [DEST CODE] button is pressed on the initial screen, the display is shifted to the country code list screen.
  Use [↑] [↓] buttons to select the country select page.
  When the table item is the top (last)item, [↑] [↓] buttons gray out. When [↑] [↓] buttons gray out, they are disabled.
* Press [BACK] button to return to the entry screen.

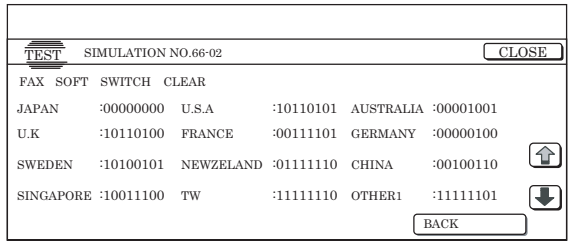
<Country code list>

JAPAN	00000000
U.S.A.	10110101
AUSTRALIA	00001001
U.K.	10110100
FRANCE	00111101
GERMANY	00000100
SWEDEN	10100101
NEWZEALAND	01111110
CHINA	00100110
SINGAPORE	10011100
TW	11111110
OTHER1	11111101
OTHER2	11111100
OTHER3	11111011
FINLAND	00111100
NORWAY	10000010
DENMARK	00110001
NETHERLANDS	01111011
ITALY	01011001
SWITZERLAND	10100110
AUSTRIA	00001010
INDONESIA	01010100
THAILAND	10101001
MALAYSIA	01101100
INDIA	01010011
PHILIPPINES	10001001
HONGKONG	01010000
RUSSIA	10111000
SOUTHAFRICA	10011111
SPAIN	10100000
PORTUGUESE	10001011
LUXEMBURG	01101001
BELGIUM	00001111
CZECH	00101110
HUNGARY	01010001
GREECE	01000110
POLAND	10001010

Initial screen



Country code list screen



66-3

Purpose : Operation test/Check

Function (Purpose) : Used to execute the read/write check of EEPROM on the MODEM controller, SDRAM, SRAM on the MFP controller, and flash ROM, and to display the results.

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-03, the following screen is displayed.
   * Use [↑] [↓] buttons to select the country select page. (The highlighted section of the set value is switched and displayed on the set setting area.)
     When [↑] [↓] buttons gray out, they are disabled.
2) When the memory check item button is selected, the display is shifted to the memory check screen.
   * Only one memory check item can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and the memory check of the selected item is started.
   * When [EXECUTE] button is pressed again during memory check, the operation is interrupted. (The display shows the status immediately before pressing [EXECUTE] button.)
     When [EXECUTE] button is pressed after interrupting the operation, memory check is resumed.
4) After completion of memory check, [EXECUTE] button returns to the normal display and the result of memory check is displayed.
   * For the memory which is not installed, [NO CHECK] is displayed.

* In the case of [REPEAT] check, the following display is made for every execution.
  CHECKING 0001
  CHECKING 0002
  CHECKING 0003
  :
  :
  The number of times is displayed in 4-digit decimal numbers. When the number exceeds 9999, it becomes 0000
  Check is repeated until [EXECUTE] is pressed or [NG] occurs.

Memory check status

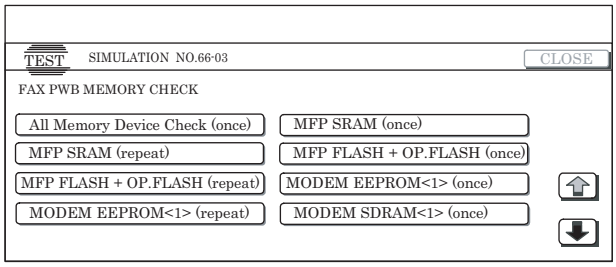
NO CHECK	No check	
CHECKING	During checking	
OK	Check complete OK	
NG A##	Check complete NG	Error occurring address or data line is displayed for each item.

Check item

	Check memory item	Remark
1	All Memory Device Check (Once)	All the items are checked once.
2	MFP SRAM (Once)	Check only once
3	MFP SRAM (Repeat)	Repeat check
4	MFP FLASH + OP.FLASH (Once)	Check only once

Check memory item		Remark
5	MFP FLASH + OP.FLASH (Repeat)	Repeat check
6	MODEM EEPROM <1> (Once)	Check only once in LINE1
7	MODEM EEPROM <1> (Repeat)	Repeat check in LINE1
8	MODEM SDRAM <1> (Once)	Check only once in LINE1
9	MODEM SDRAM<1>(Repeat)	Repeat check in LINE1

The number in < > indicates the line.



66-4

Purpose : Operation test/Check

Function (Purpose) : Used to send the selected signals to the line and the main unit speaker. (Send level: max.)

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-04, the screen on the right is displayed. (Default, left upper selected.)
   * Use [↑] [↓] buttons to switch the send mode select page. When the selected item is the top (last)item, [↑] [↓] buttons gray out. (The highlighted section of the set value is switched and displayed on the set setting area.)

   When [↑] [↓] buttons gray out, they are disabled.
2) When a button of a signal to be sent is selected, it is highlighted and the previously set button is shifted to the normal display.
   * Only one signal to be sent can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and signals are sent.
4) To end signal send:

   When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

<Signal send table>

Page1

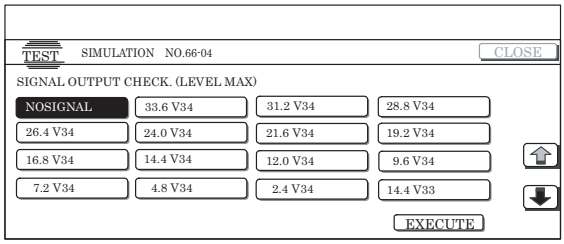
NOSIGNAL	33.6 V34	31.2 V34	28.8 V34
26.4 V34	24.0 V34	21.6 V34	19.2 V34
16.8 V34	14.4 V34	12.0 V34	9.6 V34
7.2 V34	4.8 V34	2.4 V34	14.4 V33

Page2

12.0 V33	14.4 V17	12.0 V17	9.6 V17
7.2 V17	9.6 V29	7.2 V29	4.8 V27t
2.4 V27t	0.3 FLG	CED 2100	CNG 1100
0.3 V21	ANSam	RINGER	No RBT

Page3

DP MAKE	DP BRK	NO MSG



66-5

Purpose : Operation test/Check

Function (Purpose) : Used to send the selected signal to the line and the main unit speaker. (Send level: Soft SW setting) (For the kinds of send signals, refer to PART1 and PART2 of SIM66-04.)

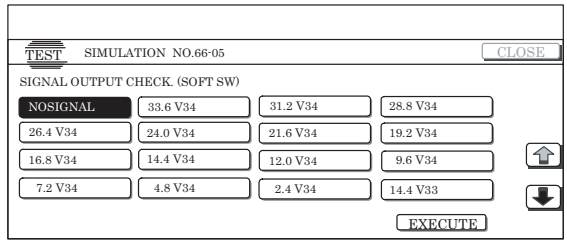
Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-05, the following screen is displayed. (Default, left upper selected)
   * Use [↑] [↓] buttons to switch the send mode select page. When the selected item is the top (last)item, [↑] [↓] buttons gray out. (The highlighted section of the set value is switched and displayed on the set setting area.)

   When [↑] [↓] buttons gray out, they are disabled.
2) When a button of a signal to be sent is selected, it is highlighted and the previously set button is shifted to the normal display.
   * Only one signal to be sent can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and signals are sent.
4) To end signal send:
   * When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.



66-6

Purpose : Data output/Check

Function (Purpose) : Used to print the confidential registration check table (BOX NO., BOX name, passcode. (If there is no confidential registration, no print is made.)

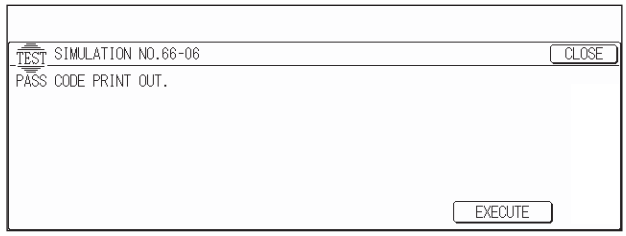
Section : FAX

Item : Data (Confidential passcode)

Operation/Procedure

1) When [EXECUTE] button is pressed, it is highlighted and the confidential checkable is printed.
   * If there is no confidential registration, no print is made even though [EXECUTE] key is pressed.
2) After completion of printing, [EXECUTE] button returns to the normal display.

* When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] key is pressed during printing, the operation is interrupted.



66-7

Purpose : Data output/Check

Function (Purpose) : Used to output all image data saved in the image memory. (Confidential data are also outputted.)

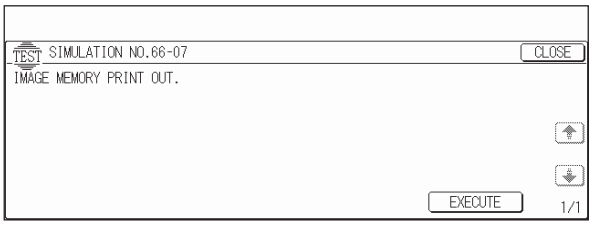
Section : FAX

Item : Data (Image data)

Operation/Procedure

1) When [EXECUTE] button is pressed, it is highlighted and all image data saved in the image memory are outputted.
   * The confidential data are also outputted.
     After completion of printing, the image data are not cleared.
   * If there is no image memory, no print is made though [EXECUTE] button is pressed.
2) After completion of printing, [EXECUTE] button returns to the normal display.

* When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] key is pressed during printing, the operation is interrupted.



66-8

Purpose : Operation test/Check

Function (Purpose) : Used to send the selected sound messages to the line and the speaker. (Send level: Max.)

Section : FAX

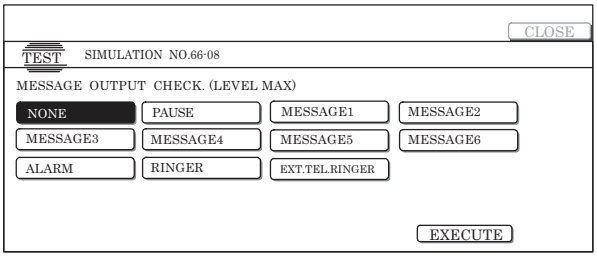
Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-08, the following screen is displayed. (Default, left upper selected)
2) When the sound message button to be sent is selected, it is highlighted and the previously set button returns to the normal display.
   * Only one sound message to be sent can be selected.
   * When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
   * When [EXECUTE] button is pressed, it is returns to the normal display and sending a sound message is interrupted.

<Sound message table>

NONE (Mute)	PAUSE (Pause melody)	MESSAGE1 (Message 1)	MESSAGE2 (Message 2)
MESSAGE3 (Message 3)	MESSAGE4 (Message 4)	MESSAGE5 (Massage 5)	MESSAGE6 (Message 6)
ALARM (Alarm)	RINGER (Ringing sound (Speaker))	EXT.TEL.RINGER (External telephone call)	



66-9

Purpose : Operation test/Check

Function (Purpose) : Used to send the selected sound message to the line and the speaker. (Send level: max.)

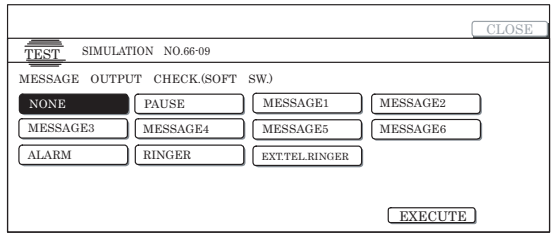
* For details of sound messages, refer to the sound message table of SIM66-08.

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-09, the following screen is displayed. (Default, left upper setting)
2) When a button of a sound message to be sent is selected, it is highlighted and the previously set button returns to the normal display.
   * Only one sound message to be sent can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
4) To end signal send:
   When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.



66-10

Purpose : Data clear

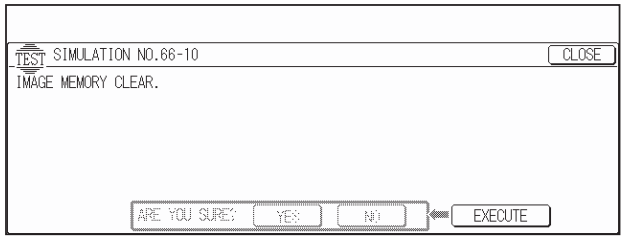
Function (Purpose) : Used to clear all image data saved in the FAX image memory. (The confidential data are also cleared.)

Section : FAX

Item : Clear (Image data)

Operation/Procedure

1) Press [EXECUTE] button.
   [EXECUTE] button is highlighted and [YES] and [NO] buttons become active.
2) Press [YES] button.
   The image memory is cleared. [YES] button is highlighted.
   * When [NO] button is pressed, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.
   * During clearing the image memory, [EXECUTE] and [YES] buttons are highlighted.
     The image memory can be cleared even if there is no image data.
3) After completion of clearing, press [CA] key to reboot the machine.



66-11

Purpose : Operation test/Check

Function (Purpose) : Used to send the selected signal at 300bps to the line and the speaker. (Send level: Max.)

Section : FAX

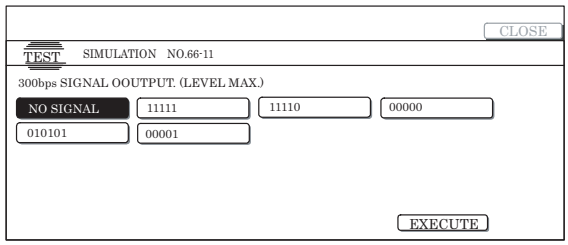
Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-11, the following screen is displayed. (Default, left upper setting)
2) When a button of a sound message to be sent is selected, it is highlighted and the previously set button returns to the normal display.
   * Only one sound message to be sent can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
4) To end signal send:
   When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.

<300bps send signal table>

NO SIGNAL	11111	11110	00000
010101	00001		



66-12

Purpose : Operation test/Check

Function (Purpose) : Used to send the selected signal at 300bps to the line and the speaker. (Send level: Soft SW setting)

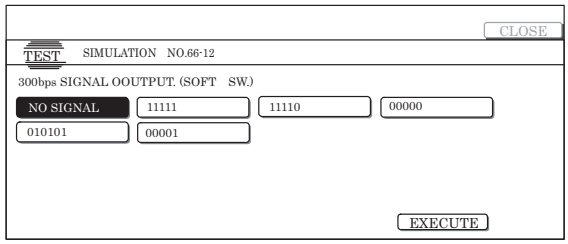
* For the kings of send signals at 300bps, refer to SIM66-11, 300bps send signal table.

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-12, the following screen is displayed. (Default, left upper setting)
2) When a button of a sound message to be sent is selected, it is highlighted and the previously set button returns to the normal display.
   * Only one sound message to be sent can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and a sound message is sent.
4) To end signal send:
   When [EXECUTE] button is pressed, it is highlighted and signal send is interrupted.



66-13

Purpose : Setting

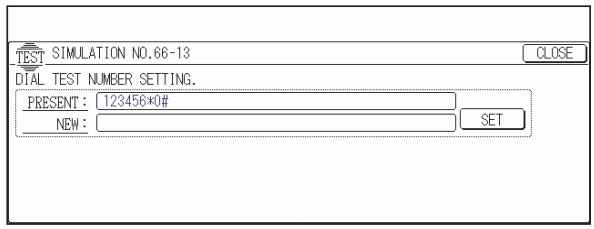
Function (Purpose) : Used to register dial numbers for SIM66-14/15/16, Dial test. (Up to 20 digits can be registered.)

Section : FAX

Item : Data (Registration)

Operation/Procedure

1) When the machine enters Simulation 66-13, the following screen is displayed.
   * The number saved in the memory is displayed in the column of [PRESENT:]. (If there is no data, [-------] is displayed.)
2) Enter a number with 10-key.
   The entered number is displayed in the column of [NEW:].
   After entering 20 digits, 10-key is disabled (no response). Only [C] key is enabled. (10-key [0] to [9], [*], [#], [C] key (back by one digit))
3) When [SET] key is pressed after completion of entry, the entered number is displayed (registered) in the column of [PRESENT:]. The column of [NEW:] becomes blank.
   * If the "NEW:" column is blank, SET is inactive. When a value is entered to the "NEW:" column, it becomes active.



66-14

Purpose : Adjustment

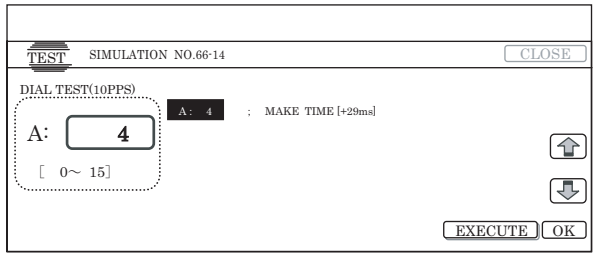
Function (Purpose) : Used to execute the dial pulse (10PPS) send test and to adjust the make time.

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-14, the following screen is displayed.
   * Enter the make time (0 to 15) with 10-key and press [OK] button, and the entered make time is temporality saved.
   * Enter the make time (0 to 15) with 10-key and press [EXECUTE] button instead of [OK] button, and [EXECUTE] button is highlighted and the dial pulse is sent from the line in the set make time.
2) When [EXECUTE] button is pressed, it is highlighted and the dial pulse is sent from the line in the set make time.
   * The dial pulse in this example is up to 20 digits registered with SIM66-13.
3) To end the dial test, press [EXCUTE] button again. The button returns to the normal display and the test is terminated.
   Also when dialing the number is completed, [EXECUTE] button returns to the normal display and the test is terminated.



66-15

Purpose : Adjustment

Function (Purpose) : Used to execute the dial pulse (20PPS) send test and to adjust the make time.

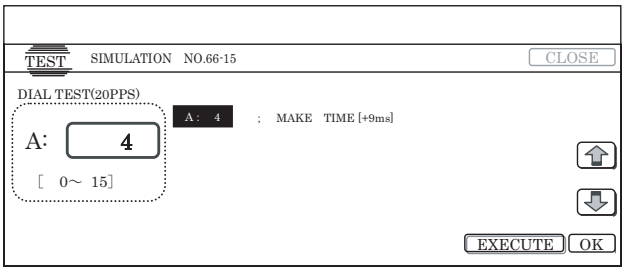
Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-15, the following screen is displayed.
   * Enter the make time (0 to 15) with 10-key and press [OK] button, and the entered make time is temporality saved.
   * Enter the make time (0 to 15) with 10-key and press [EXECUTE] button instead of [OK] button, and [EXECUTE] button is highlighted and the dial pulse is sent from the line in the set make time.
2) When [EXECUTE] button is pressed, it is highlighted and the dial pulse is sent from the line in the set make time.
   * The dial pulse in this example is up to 20 digits registered with SIM66-13.
3) To end the dial test, press [EXCUTE] button again. The button returns to the normal display and the test is terminated.

   Also when dialing the number is completed, [EXECUTE] button returns to the normal display and the test is terminated.



66-16

Purpose : Adjustment

Function (Purpose) : Used to execute the DTFM signal send test and to adjust the send level.

Section : FAX

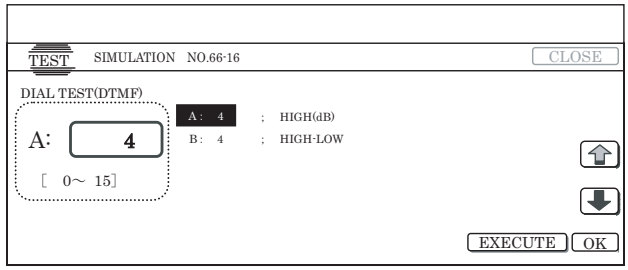
Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-16, the following screen is displayed.
   * Item A (High group frequency) and item B (High-Low group frequency) are selected with [↑] [↓] buttons. When the selected item is the top (last) item, [↑] [↓] buttons gray out. (The highlighted section of the set value is switched and displayed on the set setting area.)

     When [↑] [↓] buttons gray out, they are disabled.
   * Enter the High group or High - Low group (0 to 15) with 10-key and press [OK] button. The set sign send level is temporality saved.
   * Enter the single send level (0 to 15) with 10-key and press [EXECUTE] button instead of [OK] button, and [EXECUTE] button is highlighted and the dial pulse is sent from the line by the setting of high group or low group.
2) When [EXECUTE] button is pressed, it is highlighted and the dial pulse signal is sent from the line by the setting of high/low group of the signal send level.
3) To terminate the dial test, press [EXECUTE] button. The button returns to the normal display and the test is terminated.

   When dialing the dial number is completed, [EXECUTE] button returns to the normal display and the test is terminated.



66-17

Purpose : Operation test/Check

Function (Purpose) : Used to send the DTMF signal to the line and the speaker. (Send level: Max.)

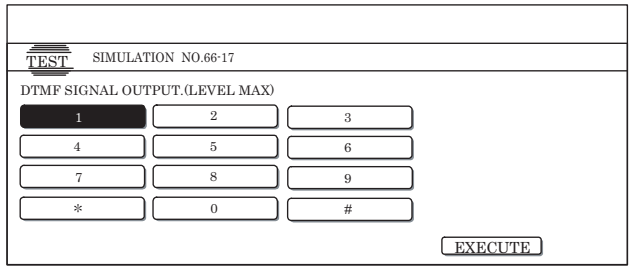
Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-17, the following screen is displayed. (Default, left upper selected)
2) When a button of a send signal is selected, it is highlighted and the previously set button returns to the normal display.
   * Only one kind of signal to be sent can be selected.
3) When [EXECUTE] button is pressed, it is highlighted and signals are sent.
   * When another signal send button is pressed during sending signals, the send signal can be changed.
4) To stop signal sending:

   When [EXECUTE] button is pressed, it returns to the normal display and signal sending is interrupted.



66-18

Purpose : Operation test/Check

Function (Purpose) : Used to send the DTMF signal to the line and the speaker. (Send level: Soft SW setting)

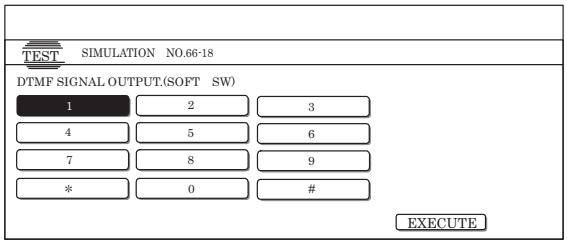
Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-18, the following screen is displayed.
2) When a button of a send signal is selected, it is highlighted and the previously set button returns to the normal display.
3) When [EXECUTE] button is pressed, it is highlighted and signals are sent.
   * When another signal send button is pressed during sending signals, the send signal can be changed.
4) To stop signal sending:

   When [EXECUTE] button is pressed, it returns to the normal display and signal sending is interrupted.



66-19

Purpose : Backup

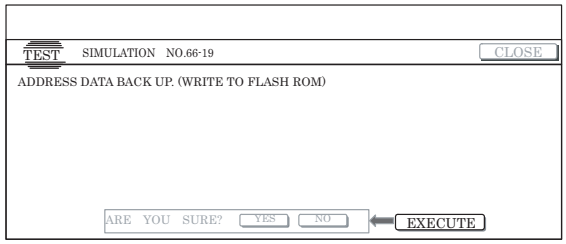
Function (Purpose) : Used to write the telephone book data stored in HD into the FLASH ROM.

Section : FAX

Item : Data

Operation/Procedure

1) Press [EXECUTE] button.
   [EXECUTE] button is highlighted and [YES] and [NO] buttons become active.
2) Press [YES] button.
   The telephone book data stored in HD are written into the FLASH ROM. [YES] button is highlighted.
   * When [NO] button is pressed, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.
   * During execution of backup, [EXECUTE] and [YES] buttons are highlighted.
3) After completion of memory writing, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.



66-20

Purpose : Backup

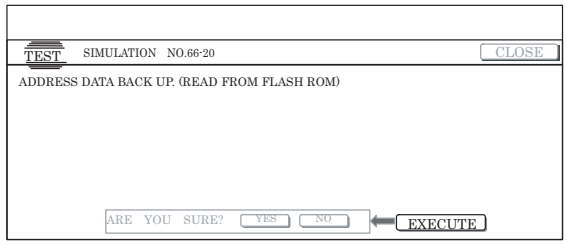
Function (Purpose) : Used to write the telephone book data stored in the FLASH ROM into HD.

Section : FAX

Item : Data

Operation/Procedure

1) Press [EXECUTE] button.
   [EXECUTE] button is highlighted and [YES] and [NO] buttons become active.
2) Press [YES] button.
   The telephone book data stored in the FLASH ROM are written into HD. [YES] button is highlighted.
   * When [NO] button is pressed, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.
   * During execution of read/write, [EXECUTE] and [YES] buttons are highlighted.
3) After completion of memory writing, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.



66-21

Purpose : Check

Function (Purpose) : Used to print the selected items (various registration information, communication management information, file management information, system error, protocol monitor).

Section : FAX

Item : Data

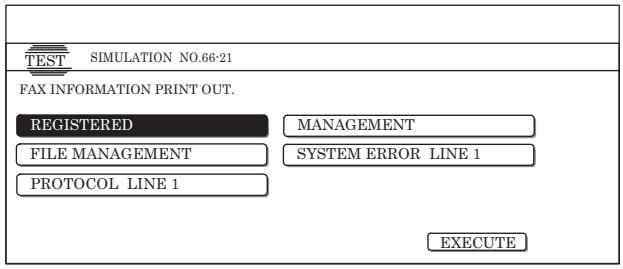
Operation/Procedure

1) When an item button to be printed is selected, it is highlighted and the previously set button returns to the normal display. (Default select: Left upper)
   * Only one item can be selected.
2) Press [EXECUTE] button.
   [EXECUTE] button is highlighted and printing is started.
   * During printing an item, [EXECUTE] and the print item button are highlighted.
3) After completion of printing, [EXECUTE] button returns to the normal display.

* When [C], [CA], [SYSTEM SETTINGS], or [EXECUTE] key is pressed during printing, the operation is interrupted.

<FAX information print content table>

REGISTERED	MANAGEMENT
FILE MANAGEMENT	SYSTEM ERROR LINE 1
PROTOCOL LINE 1	



66-22

Purpose : Setting

Function (Purpose) : Used to set the handset sound volume. (This simulation can be executed even though the handset setting is set to NO. When, however, the handset is not installed, the sound volume cannot be checked.) (Japan model only)

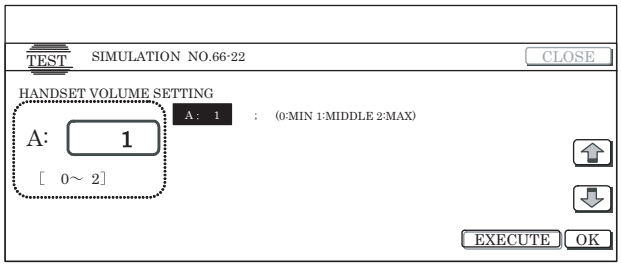
Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters the simulation, the number of the set sound volume is displayed. (In this example, MIDDLE is set as the default sound volume.)

2) Use 10-key to set the handset sound volume. (0: MIN 1:MIDDLE 2:MAX)
   * Enter the sound volume (0 to 2) with 10-key and press [OK] button. The set sound volume is saved.
   * Enter the sound volume (0 to 2) with 10-key and press [EXECUTE] key instead of [OK] key. [EXECUTE] key is highlighted and the set sound volume is saved. The on-hold tone is delivered in the set sound volume.
3) Press [EXECUTE] button to deliver the selected on-hold tone.
   * The sound message is outputted to the handset and an external telephone. The speaker, however, is muted.
   * Even during sending the on-hold tone ([EXECUTE] button is highlighted), the sound volume can be changed by switching the sound volume button.
   * If, however, the handset is not installed, the sound volume cannot be checked. Execution is possible.
4) When [EXECUTE] button is pressed, it is highlighted and delivery of the on-hold tone is stopped.



66-24

Purpose : Data clear

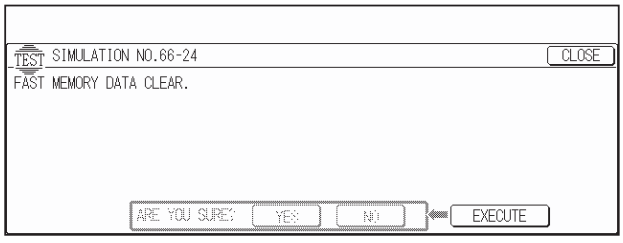
Function (Purpose) : Used to clear the FAST save data.

Section : FAX

Item : Data clear

Operation/Procedure

1) Press [EXECUTE] button.
   [EXECUTE] button is highlighted and [YES] and [NO] buttons become active.
2) Press [YES] button.
   The FAST save data are cleared. [YES] button is highlighted.
   * When [NO] button is pressed, [EXECUTE] button returns to the normal display and [YES] and {NO} buttons gray out.
   * During execution of the FAST save data clear, [EXECUTE] and [YES] buttons are highlighted.
3) After completion of memory clear, [EXECUTE] button returns to the normal display and [YES] and {NO} buttons gray out.



66-25

Purpose : Setting

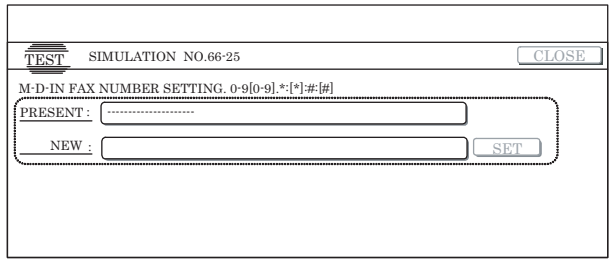
Function (Purpose) : Used to register the FAX number for MODEM dial-in.

Section : FAX

Item : Data clear

Operation/Procedure

1) When the machine enters Simulation 66-25, the following screen is displayed.
   * The stored number is displayed in the column of "PRESENT:". (If there is no data, [-------] is displayed.)
2) Enter a number with 10-key.
   Entry can be made up to 20 digits.
   After entering 20 digits. 10-key is disabled. Only [C] key is enabled.
   The entered number is displayed in the column of "NEW:".
   (10-key [0] to [9], [*], [#], [C] key (back by one digit))
3) When [SET] button is pressed after completion of entering a number, the entered umber is displayed (registered) in the column of "PREZENT:".
   The column of "NEW:" becomes blank.
   * When the column of "NEW:" is blank, [SET] becomes inactive. When a number is entered to "NEW:", [SET] becomes active.



66-26

Purpose : Setting

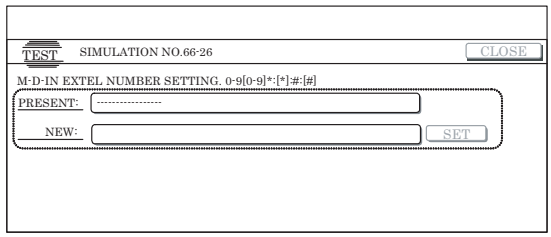
Function (Purpose) : Used to register external telephone numbers for MODEM dial-in.

Section : FAX

Item : Data (Registration)

Operation/Procedure

1) When the machine enters Simulation 66-26, the screen on the right is displayed.
   * The stored number is displayed in the column of "PRESENT:". (If there data, [-------] is displayed.)
2) Enter a number with 10-key. Entry can be made up to 20 digits.
   After entering 20 digits. 10-key is disabled. Only [C] key is enabled.
   The entered number is displayed in the column of "NEW:". (10-key [0] to [9], [*], [#], [C] key (back by one digit))
3) When [SET] button is pressed after completion of entering a number, the entered umber is displayed (registered) in the column of "PRESENT:".
   The column of "NEW:" becomes blank.
   * When the column of "NEW:" is blank, [SET] becomes inactive. When a number is entered to "NEW:", [SET] becomes active.



66-29

Purpose : Clear

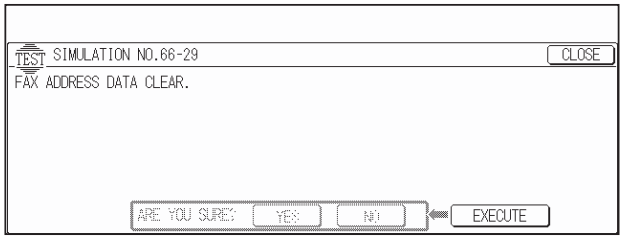
Function (Purpose) : Used to initialize the telephone book data (the one-touch registration table, the FTP/Desktop expansion table, the group expansion table, the program registration table, the interface memory box table, the meta data, InboundRouting, and the DocumentAdmin table).

Section : FAX

Item : Data (Initializing)

Operation/Procedure

1) Press [EXECUTE] button.
   [EXECUTE] button is highlighted and [YES] and [NO] buttons become active.
2) Press [YES] button.
   The telephone book data area cleared. [YES] button is highlighted.
   * When [NO] button is pressed, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.
   * During the telephone book data clear, [EXECUTE] and [YES] buttons are highlighted.
3) After completion of memory clear, [EXECUTE] button returns to the normal display and [YES] and [NO] buttons gray out.



66-30

Purpose : Operation test/Check

Function (Purpose) : Used to display the TEL/LIU status change, The display is highlighted by status change.

Section : FAX

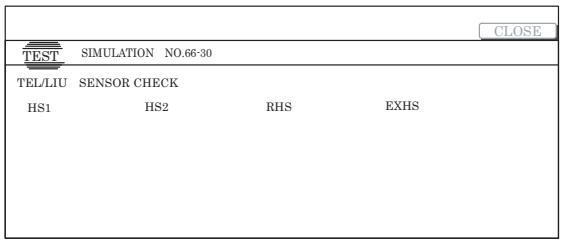
Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-30, the following screen is displayed.
2) HS1, HS2, RHS, and EXHS are highlighted when the signal is detected, and displayed normally when the signal is not detected.

<TEL/LIU status change item description>

HS1	Polarity inversion signal
HS2	Polarity inversion signal
RHS	Handset hook SW
EXHS	External telephone hook SW



66-31

Purpose : Setting

Function (Purpose) : Used to set ON/OFF the port for output to TEL/LIU.

Section : FAX

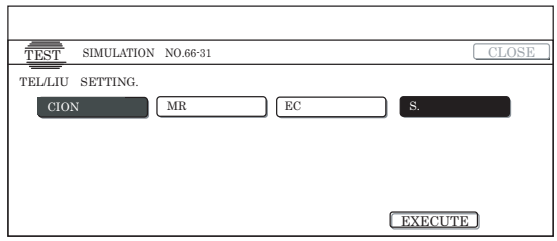
Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-31, the following screen is displayed.
   * When starting execution of the simulation, the current setting is displayed.
2) Change the port setting.
   When a port is set to ON, the port display is highlighted. Two or more ports can be selected.
   * At that time, the actual port output is not reflected.
3) When [EXECUTE] button is pressed, the changed setting is reflected to the port which outputs to TEL/LIU.
4) To terminate the process, press [EXECUTE] button again. [EXECUTE] button returns to the normal display.

<Port which outputs to TEL/LIU>

CION	MR	EC	S.



66-32

Purpose : Operation test/Check

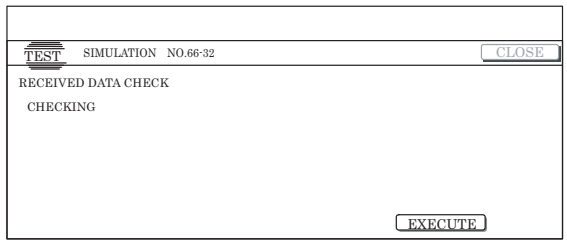
Function (Purpose) : Used to check the fixed data received from the line and to display the result.

Section : FAX

Item : Operation

Operation/Procedure

1) Press [EXECUTE] button to check the fixed data received from the line. At that time, [EXECUTE] button is highlighted.
   * Fixed data check procedure
   - The data received from the line is checked of the following fixed data status for minutes, then if they are in accord with “OK” is displayed on LCD, if not “NG” is displayed.
   - The judgment is made in 2 minutes.
     Receive speed: 300BPS
     Receive data: 00H
     Judgment data: 100byte
2) After completion of check, [EXECUTE] button returns to the normal display. The result is displayed as "OK" or "NG."
   * To check the fixed data again, press [EXECUTE] button, and check of the fixed data can be made again.



66-33

Purpose : Operation test/Check

Function (Purpose) : Used to execute detection of various signals with the line connected and to display the detection result. When a signal is detected, the display is highlighted.

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-33, the following screen is displayed.
2) When a signal is detected, "FNET" and"BUSY TONE CNG CED DTMF"are highlighted. When a signal is not detected, they are normally displayed.

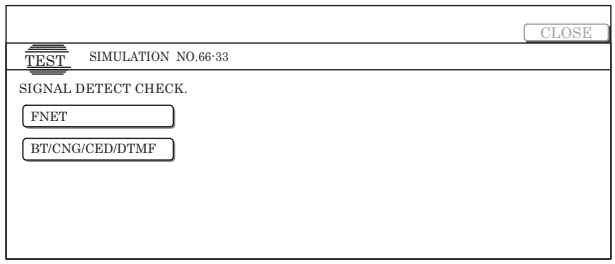
<Signal used for signal detection check>

(When "FNET" is selected)

FNET			

(When "BT/CNG/CED/DTMF" is selected)

BUSY TONE	CNG	CED	DTMF



66-34

Purpose : Operation test/Check

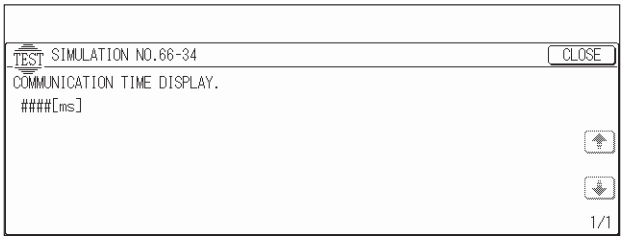
Function (Purpose) : Used to execute the send test and display the time required for sending image data in the test. Used to execute send test and display. (Unit: ms)

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-34, the following screen is displayed.
2) When image data are actually sent, the time required for sending the image data is displayed on the LCD.



* #### : Time

66-36

Purpose : Operation test/Check

Function (Purpose) : Used to check send and receive data from the MODEM controller to the MFP controller or the data line or the command line individually.

Section : FAX

Item : Operation

Operation/Procedure

1) When the machine enters Simulation 66-36, the following screen is displayed. (Default: left upper selected)
2) Operation check

   Select an item to be checked on the screen.

   * When an item to be checked is selected, it is highlighted.

3.1. When "Operation check once" is selected:

● When (once) is selected:

When [EXECUTE] button is pressed under this state, [EXECUTE] button is highlighted and the operation check is started.

After completion of the operation check, [EXECUTE] button returns to the normal display and the check result is displayed.

When the check is normally completed, "OK" is displayed. In case of an error, [NG] is displayed.

3.2. When "Operation check repeat" is selected:

● When [repeat] is selected:

When [EXECUTE] button is pressed under this state, [EXECUTE] button is highlighted and the operation check is started.

* In the case of [Repeat] check, the title display is changed as follows for every execution of check.

"MFP-MDMC I/F CHECK.- *"

"MFP-MDMC I/F CHECK.- **"

"MFP-MDMC I/F CHECK.- ***"

"MFP-MDMC I/F CHECK.- ****"

"MFP-MDMC I/F CHECK.- *****"

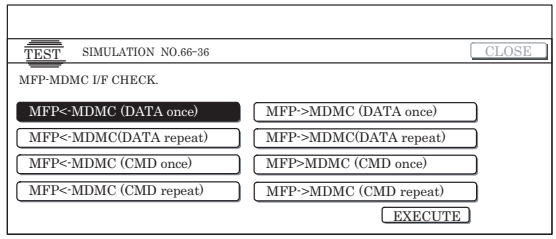
Check is repeated until [EXECUTE] button is pressed or "NG" occurs.

To stop the operation check, press [EXECUTE] button, and [EXEUTE] button returns to the normal display and the operation check is terminated.

* When an abnormality occurs during check, "NG" is displayed and the operation is terminated.

<MFP controller I/F check item table>

MFP ← MDMC (DATA once)	MFP → MDMC (DATA once)
Data line Once	Data line Once
MFP ← MDMC (DATA repeat)	MFP → MDMC (DATA repeat)
Data line Repeat	Data line Repeat
MFP ← MDMC (CMD once)	MFP → MDMC (CMD once)
Command line Once	Command line Once
MFP ← MDMC (CMD repeat)	MFP → MDMC (CMD repeat)
Command line Repeat	Command line Repeat



66-39

Purpose : Setting

Function (Purpose) : Used to check and change the destination setting saved in EEPROM of the FAX BOX.

Section : FAX

Item : Specifications

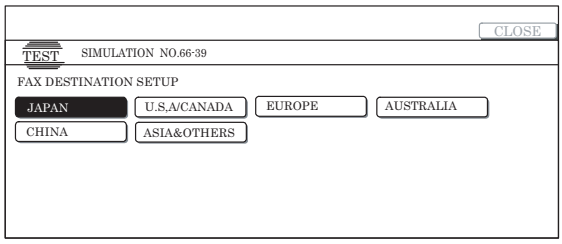
Operation/Procedure

1) When the machine enters the simulation, the currently set destination button is highlighted. (In the default state, JAPAN is set as the destination.)

2) Select a destination button to set the destination. (In this example, USA/CANADA is selected.) The selected button is highlighted and the previously selected button returns to the normal display.
   * When the destination button is changed, the new destination setting is saved to EEPROM of the FAX BOX.
   * When, however, there is no destination setting in EERPOM of the FAX BOX, "NO DESTINATION" is displayed on the title line and all the destination buttons are normally displayed.

<Destination setting table>

JAPAN	U.S.A/CANADA	EUROPE	AUSTRALIA
CHINA	ASIA&OTHERS		



66-42

Purpose : Setting

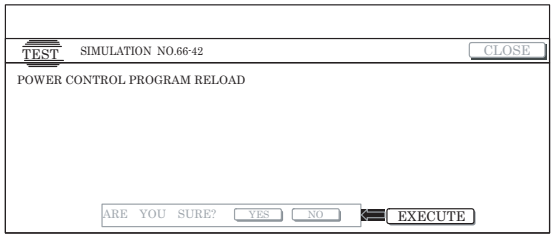
Function (Purpose) : Used to rewrite the program to power control installed in the FAX BOX.

Section : —

Item : —

Operation/Procedure

1) Press [EXECUTE] button.[EXECUTE] button is highlighted and YES] and [NO] buttons become active.
2) Press [YES] button.
   The power control program is rewritten.
   * During rewriting the power control program, [EXECUTE] and [YES] buttons are highlighted.
   * When [NO] button or [EXECUTE] button is pressed, [EXECUTE] button returns to the normal display, and [YES] and [NO] buttons gray out.
3) When rewriting of the power control program is normally completed, "OK" is displayed and [EXECUTE] button returns to the normal display, and [YES] and [NO] buttons gray out.
   * When rewriting of the power control program is failed, the error message of "NG"is displayed and [EXECUTE] button returns to the normal display, and [YES] and [NO] buttons gray out.



66-43

Purpose : Setting

Function (Purpose) : Used to write the adjustment value into the power control installed in the FAX BOX.

Section : FAX

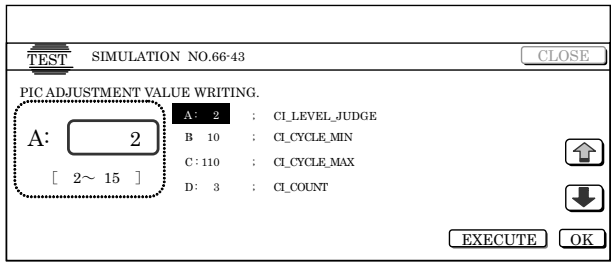
Item : Setting

Operation/Procedure

1) When the machine enters Simulation 66-43, the following screen is displayed. (Default: left upper selected)
   * Use [↑] [↓] buttons to select the select item of the power control adjustment value. Selection is made in Item A to H.
     When the selected item is the top (last) item, [↑] [↓] buttons gray out. (The highlighted section of the set value is switched and the new value is displayed on the setting area.)
     When [↑] [↓] buttons gray out, they are disabled.
   * Enter the power control adjustment value with 10-key and press [OK] button ([↑] [↓] buttons). The set power control adjustment value is saved to the primary memory area.
   * The set data are saved in the primary memory area. Therefore, the setting is reflected only when [EXECUTE] button is pressed to execute.
   * For the range of the power control adjustment value and each value, refer to the table.
2) When [EXECUTE] key is pressed, it is highlighted and writing to the power control is executed. When writing is normally completed, "OK" is displayed. When it is failed, "NG" is displayed.
3) After completion of writing, [EXECUTE] key returns to the normal display.

<Set range and default value of each set value>

	Item	Set range	Default value
A	CI_LEVEL_JUDGE	2 to 15	2
B	CI_CYCLE_MIN	1 to 254	10
C	CI_CYCLE_MAX	2 to 255	110
D	CI_COUNT	2 to 15	3
E	POFF_LEVEL_JUDGE	2 to 15	15
F	EXHS_LEVEL_JUDGE	2 to 15	10
G	RHS_LEVEL_JUDGE	2 to 15	2
H	SON_TIMEOUT	1 to 127	20



2. FAX software switch

A. FAX Soft SW List

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
1	1-8	Country code	Control is performed according to the set country code. The destination setting that is set in SIM66-2 as the image send function is reflected. The country code setting cannot be directly made from this SW.	1 0 1 1 0 1 0 1	North America * For codes of the other countries, refer to the page of SIM 66-2 setting.	
2	1	Change from the image send screen to the copy screen	Setting to determine whether or not to automatically change from the image send screen to the copy screen. When changing over, if no keys are operated for 20 seconds after pushing the final key in the image send mode, the copy mode will be automatically switched to. If there is no changeover, the machine will remain in the image send mode and not switch to the copy mode. "1": Change over "0": Do not change over	1 0	Change over (North America) Do not change over (Other country)	Operation settings
	2-5	Image quality priority selection (standard image quality setting)	Setting to determine the initial setting for image quality selection when reading documents on the FAX. "0000": Ordinary lettering "0001": Small lettering "0010": Fine "0011": Very fine "0101": Small lettering, medium tone "0110": Fine, medium tone "0111": Very fine, medium tone "Ordinary lettering" (initial value) is reverted to if a value outside of the setting range is set.	0 0 0 0	Ordinary lettering	Operation settings
	6	Image quality setting when saving (FAX)	Setting to determine whether or not to make filed image quality valid (initial setting for image quality selection when transmitting filed document files by FAX) "1": Apply "0": Do not apply	0	Do not apply.	Operation settings
	7-8	Not used		0 0		
3	1	Received data printing hold (FAX/Internet FAX)	Setting to determine whether or not to store data received by FAX/ Internet FAX in the memory without outputting it. "0": Do not hold "1": Hold	0	Do not hold	Operation settings
	2-3	Tone/Pulse initial setting (Dial call signal setting)	This is set according to dial type. "00": 10PPS (pulse) "01": 20PPS "10": TONE "11": TONE If "20pps" is set, adopt the initial TONE.	1 0	TONE	FAX initial setting
	4	Auto startup mode	In the case where FAX or Internet FAX is received during nighttime mode or simulated mode, if this setting is ON, the received document will be outputted when the machine becomes able to output. When OFF, the machine will receive the data by proxy without outputting the document, but it will output the received document when the panel power SW is ON. "0": Setting (setting for automatically starting up the main unit and outputting) "1": Release (setting for storing in the memory without starting up the main unit)	0	Setting	FAX initial setting
	5-8	Pause time setting (between dials)	This sets the time per pause inputted during dialling. The pause time can be set from 1 to 15 seconds in 1-second increments by binary inputting N over the range of 0 to 15 (1 second x N). If a value outside the setting range (or "0000") is set, the initial value of 2 seconds is reverted to.	0 0 1 0	"0010": 2 seconds (Other country) "0100": 4 seconds (South Africa)	FAX initial setting
4	1-2	Speaker volume when on-hook (Speaker volume during DTMF sending)	This sets speaker volume for when the on-hook button is pushed. Volume is available in three types. "00": Medium "01": Small "10": Medium "11": Large If a setting outside the setting range is set, the initial value of Medium is reverted to.	1 0	Medium	FAX initial setting

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
4	3-4	Call sound volume	Irrespective of whether there is a handset, this sets the volume of the call sound that is sounded when a signal arrives. Volume is available in four types as follows. "00": No sound "01": Small "10": Medium "11": Large	1 0	Medium	FAX initial setting
	5-6	Line monitor volume setting	Set the speaker volume during line monitoring. Volume is available in four types as follows. "00": No sound "01": Small "10": Medium "11": Large	1 0	Medium (North America/ Australia/Sweden/Finland/ Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Slovakia/Other3/ South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	FAX initial setting
				0 0	No sound (U.K./France/ Germany/Rusia)	
	7-8	Volume of the transmission completion sound (Volume of the successful transmission sound)	Set the volume of the completion sound outputted from the speaker upon completion of FAX transmission. Volume is available in four types as follows. "00": No sound "01": Small "10": Medium "11": Large	1 0	Medium	FAX initial setting
5	1-2	Volume of the communication error completion sound. (Volume of the transmission and reception error sound)	This sets the volume of the completion sound outputted from the speaker upon completion of FAX communication error. Volume is available in four types as follows. "00": No sound "01": Small "10": Medium "11": Large	1 0	Medium	FAX initial setting
	3-4	Volume of the reception completion sound (Volume of the reception completion sound)	This sets the volume of the completion sound outputted from the speaker upon completion of FAX reception. Volume is available in four types as follows. "00": No sound "01": Small "10": Medium "11": Large	1 0	Medium	FAX initial setting
	5-6	Tone of the successful transmission sound	This sets the tone sounded when transmission is successful. "00": Pattern 1 (550Hz) "01": Pattern 2 (750Hz) "10": Pattern 3 (1000Hz) "11": Pattern 4 (1700Hz)	1 0	Pattern 3 (1000Hz)	FAX initial setting
	7-8	Tone of the transmission error sound	This sets the tone sounded when there is a transmission error. "00": Pattern 1 (550Hz) "01": Pattern 2 (750Hz) "10": Pattern 3 (1000Hz) "11": Pattern 4 (1700Hz)	1 0	Pattern 3 (1000Hz)	FAX initial setting
6	1-2	Tone of the reception sound	This sets the tone sounded upon completion of reception. "00": Pattern 1 (550Hz) "01": Pattern 2 (750Hz) "10": Pattern 3 (1000Hz) "11": Pattern 4 (1700Hz)	1 0	Pattern 3 (1000Hz)	FAX initial setting
	3-5	Setting of the successful transmission sound time	This sets the time the tone is sounded when transmission is successful. "000": 2.0 seconds "001": 2.5 seconds "010": 3.0 seconds "011": 3.5 seconds "100": 4.0 seconds The initial value is reverted to if a value outside of the setting range is set.	0 1 0	3.0 seconds	FAX initial setting
	6-8	Setting of the reception sound time	This sets the time the tone is sounded upon completion of reception. "000": 2.0 seconds "001": 2.5 seconds "010": 3.0 seconds "011": 3.5 seconds "100": 4.0 seconds The initial value is reverted to if a value outside of the setting range is set.	0 1 0	3.0 seconds	FAX initial setting

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
7	1	Setting of the time of the transmission/ reception error sound	Transmission error sound sounding interval "0": Every 0.3 seconds "1": Every 0.7 seconds Sounding time and paper feeding time are the same.	0	Every 0.3 seconds	FAX initial setting
	2-3	Communication results sheet print settings (for ordinary transmission) <FAX only>	This sets outputting of the communication results sheet following transmission (excluding successive broadcast, successive polling and relay broadcast transmission). "00": Do not print "01": Always print "10": At times of transmission failure The initial value is reverted to if a value outside of the setting range is set.	1 0	At times of transmission failure	FAX initial setting
	4-5	Setting of the communication results sheet printing (at times of broadcast transmission)	This sets outputting of the communication results sheet at times of successive broadcast, successive polling and relay broadcast transmission. "00": Do not print "01": Always print "10": Failed transmission address The initial value is reverted to if a value outside of the setting range is set.	0 1	Always print	FAX initial setting
	6-7	Communication results sheet print setting (when receiving) <FAX only>	This sets outputting of the communication results sheet for when communications are received (excluding confidential communications). "00": Do not print "01": Always print "10": At times of error The initial value is reverted to if a value outside of the setting range is set.	0 0	Do not print	FAX initial setting
	8	Report output (when receiving confidential communications) <FAX only>	Setting to determine whether or not to output the communication results sheet (receiving) when confidential communications are received. "1": Print "0": Do not print This only functions when the communication results sheet print setting (receiving) is set to be outputted.	0	Print	FAX initial setting
8	1-2	Print document contents when transmitting (results sheet) <FAX only>	Setting to determine whether or not to print part of the transmitted document on the communication results sheet (transmission) when FAX transmission error occurs. "00": Do not print "01": Always print "10": At times of error The initial value is reverted to if a value outside of the setting range is set. This functions when the communication results sheet print setting (ordinary transmission) (broadcast transmission) is set to be outputted.	1 0	At times of error	FAX initial setting
	3	Automatic printing of the record sheet when memory is full.	Setting to determine whether or not to automatically output the communication record sheet when transmitted and received data on the FAX/Internet FAX communication record sheet reach 200 entries. "0": No (do not output) "1": Yes (automatically output) If the data are not outputted, then new data are written over the previous data starting from the oldest of the 200 entries. Trigger printing of 200 entries.	0	No	FAX initial setting
	4-8	Printing of the communication record sheet at a designated time (hours)	Set the hours part of the designated time (hours and minutes) for outputting the communication record sheet. Setting can be made over the range of 0 to 23 (hours) in 1-hour increments by binary inputting. The initial value of 0 hour is reverted to if a value outside of the setting range is set.	0 0 0 0 0	0 hour	FAX initial setting
9	1-6	Printing of the communication record sheet at a designated time (minutes)	Set the minutes part of the designated time (hours and minutes) for outputting the communication record sheet. Setting can be made over the range of 0 to 59 (minutes) in 1-minute increments by binary inputting. The initial value of 0 minute is reverted to if a value outside of the setting range is set.	0 0 0 0 0 0	0 minute	FAX initial setting
	7	Printing of the communication record sheet at a designated time	Setting to determine whether or not to output the communication record sheet at a designated time. "1": Output the communication record sheet at a designated time "0": Do not output the communication record sheet at a designated time. Even if designated time printing is set, do not output when the designated time coincides with the nighttime FAX mode.	0	Do not output	FAX initial setting
	8	ECM (valid except during V.34: reflected in the V.21 DIS/DCS/ DTC)	Setting to determine whether or not to execute the error re-send mode. However, this is only valid when communication is other than V.34. "1": No. Set with no ECM function. "0": Yes. Set with ECM function. ECM is on during communication in the V.34 mode.	0	Yes	FAX initial setting

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
10	1-8	Remote changeover number setting	Set by binary inputting the number for receiving remote changeover from external telephones. However, the remote changeover number is "XX*" with * fixed. Adopt * when "A" is inputted. Adopt # when "B" is inputted. For bits 1-4, fix the upper digit of the remote changeover number. (0-F) For bits 5-8, fix the second lowest digit of the remote changeover number. (0-F) When C-F are set, the initial value is reverted to.	0 1 0 1 1 0 1 0	5*	FAX initial setting
11	1-4	Distinctive ring (DRD setting)	Setting to determine whether or not to execute FAX arrival call by the distinctive ring. Even if a call signal other than the set pattern is detected, there will be no automatic arrival call. "0000": OFF "0001": STANDARD "1000": Pattern 1 "0100": Pattern 2 "1100": Pattern 3 "0010": Pattern 4 "1010": Pattern 5 "0110": ON (Australia) "1110": ON (New Zealand) "1001": ON (Hong Kong) When contents other than the above are set, the initial value is reverted to.	0 0 0 0	OFF	FAX initial setting
	5-8	Not used		0 1 1 0		
12	1-2	Not used		0 0		
	3-4	PBX setting	Setting to determine whether or not to send out ID or Flash before dialing. Functions only in Germany and France. In other countries, this setting is fixed to "OFF". "00": OFF "01": Flash "10": ID The setting other than the above would be granted as the default.	0 0	No (invalid)	FAX initial setting
	5-8	ID (number) setting <Input the 1st digit when dial inputting and dialing>	Conduct ID No. setting when the PBX function is valid. Valid when ID is set using SW12-3, 12-4. The initial value of 0 is reverted to if a value outside of the setting range (10-15) is set.	0 0 0 0		FAX initial setting
13	1-4	ID (number) setting 2 <Input the 2nd digit when dial inputting and dialing>	Conduct ID No. setting when the PBX function is valid. Valid when ID is set using SW12-3, 12-4. When 10-12, 14, 15 are designated, do not use numbers with those digits. "-" when 13 is set.	1 1 0 1		FAX initial setting
	5-8	ID (number) setting 3 <Input the 3rd digit when dial inputting and dialing>	Conduct ID No. setting when the PBX function is valid. Valid when ID is set using SW12-3, 12-4. When 10-12, 14, 15 are designated, do not use numbers with those digits. "-" when 13 is set.	1 1 0 1		FAX initial setting
14	1	External telephone connection	Setting to determine whether or not to use an external telephone. If "Yes" is not set using this switch, an external telephone cannot be used. "0": No (invalid) "1": Yes (valid) The user cannot set without an external telephone.	1	Yes	FAX initial setting
	2-8	Not used		0 1 0 0 0 0 0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
15	1-8	Signal sending level	Set the level adjustment for sending signals from the modem. Setting can be made over the range of 0 to 26 in 1dBm increments by binary inputting. Since the maximum level differs according to country, if a value above the maximum level is set, the maximum value for the present country code will be adopted.	0 0 0 0 1 0 1 0	"00001010": -10dBm (North America/China/ Singapore/Thailand/ Malaysia/Philippine/Hong Kong/Middle East/Other3) "00001001": -9dBm (U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Indonesia/Slovakia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland) "00001011": -11dBm (Australia/New Zealand/ India/Taiwan/Rusia)	Adjustment value
16	1-8	Not used		0	Refer to "SW16, 1-8 Initial value"	
17	1	Automatic reduced transmission	In cases where the transmitted document size (width) is larger than the FAX paper size (width) of the other party's machine, this setting determines whether to reduce the transmitted document or to cut off both edges. "0": Transmit in reduced size "1": Do not transmit in reduced size	0	Transmit in reduced size.	FAX transmission setting
	2	Rotated transmission selection (A4 → A4R)	Rotated transmission or not depending on orientation of the document. When transmitting A4 document, this setting determines whether to transmit as A3 width (A4) or to rotate the read image and transmit as A4 width (A4R). "0": Rotate "1": Do not rotate	0	Rotate	FAX transmission setting
	3	Rotated transmission selection (B5R → B5)	Rotated transmission or not depending on orientation of the document. When transmitting B5R document, this setting determines whether to transmit as A4 width (B5R) or to rotate the read image and transmit as B4 width (B5). "0": Rotate "1": Do not rotate	0	Rotate	FAX transmission setting
	4	Rotated transmission selection (A5R → A5)	Rotated transmission or not depending on orientation of the document. When transmitting A5R document, this setting determines whether to transmit as A4 width (A5R) or to rotate the read image and transmit as A4 width (A5). "0": Rotate "1": Do not rotate	0	Rotate	FAX transmission setting
	5	Rotated transmission selection (8.5 x 11 → 8.5 x 11R)	Rotated transmission or not depending on orientation of the document. When transmitting 8.5 x 11 (LTR) document, this setting determines whether to transmit as A3 width (8.5 x 11) or to rotate the read image and transmit as A4 width (8.5 x 11R). "0": Rotate "1": Do not rotate	0	Rotate	FAX transmission setting
	6	Rotated transmission selection (16K → 16KR)	Rotated transmission or not depending on orientation of the document (16K≒A4). When transmitting 16K document, this setting determines whether to transmit as A3 width (16K) or to rotate the read image and transmit as A4 width (16KR). "0": Rotate "1": Do not rotate	0	Rotate	FAX transmission setting
	7	Rotated transmission selection (5.5 x 8.5R → 5.5 x 8.5)	Rotated transmission or not depending on orientation of the document (INVOICE≒A5). When transmitting 5.5 x 8.5R (INVOICE-R) document, this setting determines whether to transmit as A4 width (5.5 x 8.5R) or to rotate the read image and transmit as A4 width (5.5 x 8.5). "0": Rotate "1": Do not rotate	0	Rotate	FAX transmission setting

SW16, 1-8 Initial value

"00000000": North America/Taiwan/Middle East/Other3
"00010000": China/Hong Kong
"00110000": India
"01010000": Indonesia/Thailand/Malaysia/Philippine
"01100000": Singapore/South Africa
"10000000": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/Slovakia/Spain/Portuguese/ Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"10100000": Australia/Rusia

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
17	8	Page number printing	Setting to determine whether or not to apply the page number (page number/total pages in cases of memory transmission) in the area for printing date and source. "0": Apply "1": Do not apply	0	Apply	FAX transmission setting
18	1	Designation of date and source printing position	Set the position for applying the date and transmission source on the top of the document when transmitting it. "0": Outside the document "1": Within the document	0	Outside the document	FAX transmission setting
	2	Quick online/Memory transmission changeover (quick online transmission)	Setting to determine whether to put transmission into the quick online transmission mode or the memory transmission mode. "0": Quick online transmission "1": Memory transmission	0	Quick online transmission	FAX transmission setting
	3	Designation of date and source printing	Set whether or not to apply the date and transmission source on the top of the document when transmitting it. "0": Apply "1": Not apply Not functionable in North America (always applied).	0	Apply	FAX transmission setting
	4	Re-call permitted when busy	Set to re-call when the other party of a transmission is busy or does not call in. "0": Prohibited "1": Permitted	1	Permitted	FAX transmission setting
	5-8	Number of re-calls when busy	Set the number of re-calls to be made when the other party of a transmission is busy or does not call in. This can be set from 1 to 14 times by binary inputting. If 0 is set, the initial value of 2 times is adopted. Number of recalls: Setting x once The initial value is reverted to if a value outside of the setting range is set.	0 0 1 0	2 times	FAX transmission setting
19	1-4	Interval between re-calls when busy	Set the interval until the next re-call when the line is busy during transmission. This can be set from 0 to 15 minutes in 1-minute increments by binary inputting. If 0 is set, the initial value of 3 minutes is adopted. Re-call interval: Set value x 1 minute The initial value is reverted to if a value outside of the setting range is set.	0 0 1 1	3 minutes (North America/ Australia/U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/China/Singapore/ Thailand/Malaysia/India/ Philippine/Hong Kong/ Middle East/Slovakia/ Other3/Rusia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	FAX transmission setting
				0 1 0 0	4 minutes (Indonesia/ Taiwan)	
	5-8	Number of re-calls at times of communication error	Set the number of re-calls to be made when a communication error occurs during transmission. This can be set from 1 time by binary inputting. If 0 is set, the initial value of 1 time is adopted. Number of recalls: Setting x once The initial value is reverted to if a value outside of the setting range is set.	0 0 0 1	1 time (North America/ Australia/U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/Middle East/ Slovakia/Other3/Rusia/ South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	FAX transmission setting
				0 0 1 0	2 times (China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan)	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
20	1-4	Re-call interval at times of communication error	Set the interval until the next re-call when communication error occurs. This can be set from 1 to 15 minutes in 1-minute increments by binary inputting. Number of recalls: Setting x once The setting is from 1 to 15. The initial value is reverted to if a value outside of the setting range is set.	0 0 1 1	"0011": 3 minutes (North America/Australia/New Zealand) "0001": 1 minute (U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ China/Singapore/ Thailand/Malaysia/India/ Philippine/Hong Kong/ Taiwan/Middle East/ Slovakia/Other3/Rusia/ South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "0100": 4 minutes (Indonesia)	FAX transmission setting
	5	Re-call permitted at times of communication error	Set whether or not to re-call when a communication error occurs during transmission. "0": Prohibited "1": Permitted	1	Permitted	FAX transmission setting
	6	Automatic reduced printing to fixed sizes	If a size in excess of the valid printing area is received, this setting determines whether or not to automatically reduce size. If size is not reduced, the excessive area is discarded without being printed. "0": Reduce "1": Do not reduce (discard) The reduction factor is set using the separate SW (Automatic reduction factor setting).	0	Reduction	FAX reception setting
	7	Setting to reduce and discard when printing A3-11 x 17 (reduced printing setting when receiving A3)	Setting to determine whether to reduce to 11 x 17 inch size sheet or to print without reducing in cases of receiving A3 wide document when 11 x 17 inch size sheet is set. "0": Reduce "1": Do not reduce (discard) When not reducing, the area that cannot be printed is scrapped. When set to "Reduce," the overall data are reduced to 94%.	1	Do not reduce (discard)	FAX reception setting
	8	Reduced print setting when receiving letters.	Setting to determine whether to reduce to A4 size sheet or to print without reducing in cases of receiving 8.5 x 11 (LTR) when A4 size sheet is set. "0": Reduce "1": Do not reduce (discard) When not reducing, the area that cannot be printed is scrapped. When set to "Reduce," the overall data are reduced to 94%.	1	Do not reduce (discard)	FAX reception setting
21	1-4	Setting of the number of automatic reception calls	Set the number of call sounds until the start of receiving (holding of the line) when automatic reception is set. This can be set from 0 to 15 times by binary inputting. If 0 is set, the call sound will not be sounded. (However, this does not include the nighttime FAX mode.)	0 0 1 0	2 times	FAX reception setting
	5	Double-faced printing of received data (double-faced reception setting)	Setting to determine whether received data are printed on both sides. "1": Double-faced printing permitted "0": Double-faced printing prohibited	0	Double-faced printing prohibited	FAX reception setting
	6-7	Setting of received data print conditions	Setting for selecting the optimum sheet when printing data received by FAX. "00": Equal magnification/Reduction permitted "01": Equal magnification (division/reduction prohibited) "10": Equal magnification/Division permitted The initial value is reverted to if a value outside of the setting range is set. Setting for selecting the optimum sheet when printing data received.	0 0	Equal magnification/ Reduction permitted	FAX reception setting
	8	Designated number reception refusal setting (FAX)	Setting to determine whether or not to validate refusal of reception from designated numbers (FAX). However, only valid during automatic reception. "0": Receipt of designated number is not refused (invalid) "1": Receipt of designated number is refused (valid) However, implement using a separate SW (setting to refuse reception at times of manual reception) when receiving manually.	0	Receipt of designated number is not refused (invalid)	FAX reception setting
22	1	FAX delivery tray setting	Set the delivery tray at the destination of FAX data output. "1": Right tray (without finisher attached) "0": Center tray (without finisher attached) "1": Right tray (with finisher attached) "0": Finisher tray (with finisher attached)	0	Center tray (without finisher attached) Finisher tray (with finisher attached)	FAX reception setting
	2	Not used		0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
22	3	Staple setting	Set to determine whether or not to staple when outputting received FAX data. "0": No "1": Yes	0	No	Device setting
	4-5	Staple position setting	With the finisher attached, set the staple position for when conducting stable output of FAX printed data. "00": Rear 1 point "01": Front 1 point "10": Center 2 points "11": Same action as initial value The initial value is reverted to if a value outside of the setting range is set.	0 0	Rear 1 point	Device setting
	6-7	Selection of delivered sheet size	Sheet size setting when conducting stable output of FAX/Internet FAX printed data with the finisher attached. "00": A4 or A3 (8.5 x 11 or 11 x 17) "01": B5 or B4 (8.5 x 11 or 8.5 x 14) "10": A4 (8.5 x 11) "11": A4R (8.5 x 11R)	0 0	A4 or A3 (8.5 x 11 or 11 x 17)	FAX reception setting
	8	Valid/Invalid setting of FAX A4, 8.5 x 11 threshold	When printing received FAX data with A4 and 8.5 x 11 paper in the tray, this setting determines whether to make threshold values in paper selection valid or invalid. If made valid, it becomes easier to select letters. "0": Valid "1": Invalid When printing received Internet FAX data, conduct setting using the separate SW (Valid/Invalid setting of Internet FAX A4, 8.5 x 11 threshold).	0	Valid	
23	1	Setting for changing over to automatic reception during manual reception	Setting to determine whether or not to initiate automatic reception after the ringer sounds a certain number of times when manual reception is set. "0": Prohibited (do not changeover) "1": Permitted (changeover)	0	Prohibited	FAX reception setting
	2-6	Setting of the number of calls for changing over from manual to automatic reception	Set the number of calls before changing over to automatic reception when in the manual reception mode. This functions when the "Setting for changing over to automatic reception during manual reception" (SW23-1) is valid. Setting can be made over the range of 1 to 32 times by binary inputting.	0 1 0 0 0	9 times	FAX reception setting
	7	Polling protection	Set to determine whether or not to execute protection when the other party requests polling. "0": Protect "1": Do not protect When the protection setting is selected and a request for polling is received from the other party's machine, bulletin board transmission is conducted if the source number of the other party coincides with the number permitted for polling. When the setting not to protect is selected, bulletin board transmission is executed regardless of the source number of the other party.	0	Protect	Polling protection setting
	8	Switch to sorting in order of numbers on the address list	Set to choose between the registered order or the search number order when neither upward nor downward selection is selected on the address book screen and address list. "0": Search number order "1": Registered number order	0	Search number order	
24	1	External telephone off-hook warning	This sets whether or not to alarm the external telephone off-hook at the end of a transmission. "0": No alarm "1": Alarm This switch does not function in North America. Hand-set always makes the off-hook alarm. Functions of external telephone depends on TEL/LIU.	0	No alarm (North America/ Australia/New Zealand/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3)	
				1	Alarm (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/Rusia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
	2-5	Not used		1 0 0 0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
24	6	Scope of line sound monitor	Setting to determine the scope of monitoring when the line monitor function is used When "Until NSF signal send/receive" is set, monitoring is conducted until the DCS or NSF signal is received. When "All" is set, everything is monitored until the line is disconnected. "0": Until NSF signal send/receive "1": All Setting of line monitor sound ON/OFF is done by a separate SW.	0	Until NSF signal send/ receive	
	7-8	Volume setting of call sound (large)	This sets the large (system setting) volume level of the call sound outputted from the speaker. This includes volume of BZ-related sounds (communication completion sound, communication error sound). "00": Volume level 9 "01": Volume level 11 "10": Volume level 13 "11": Volume level 15	1 0	Volume level 13	
25	1-2	Volume setting of call sound (medium)	This sets the medium (system setting) volume level of the call sound outputted from the speaker. This includes volume of BZ-related (communication completion sound, communication error sound) and on-hook sounds. "00": Volume level 3 "01": Volume level 5 "10": Volume level 7 "11": Volume level 9	0 1	Volume level 5	
	3-4	Volume setting of call sound (small)	This sets the small (system setting) volume level of the call sound outputted from the speaker. This includes volume of BZ-related (communication completion sound, communication error sound) and on-hook sounds. "00": Volume level 0 (no sound) "01": Volume level 1 "10": Volume level 2 "11": Volume level 3	1 0	Volume level 2	
	5-6	Volume setting of line monitor sound (large)	This sets the large (system setting) volume level of the line monitor sound outputted from the speaker. "00": Volume level 9 "01": Volume level 11 "10": Volume level 13 "11": Volume level 15	1 1	Volume level 15	
	7-8	Volume setting of line monitor sound (medium)	This sets the medium (system setting) volume level of the line monitor sound outputted from the speaker. "00": Volume level 5 "01": Volume level 7 "10": Volume level 9 "11": Volume level11	1 1	Volume level 11	
26	1-2	Volume setting of line monitor sound (small)	This sets the small (system setting) volume level of the line monitor sound outputted from the speaker. "00": Volume level 1 "01": Volume level 3 "10": Volume level 5 "11": Volume level 7	1 1	Volume level 7	
	3	Not used		0		
	4	Remote changeover permitted	Setting to determine whether to make only call arrival by remote changeover from an external telephone valid or to make both call transmission and arrival valid. "0": Only call arrival "1": Call transmission and arrival	0	Only call arrival	
	5-7	Setting of call time (TO timer setting) in automatic transmission	Setting to determine how many seconds to call when the other party doesn't respond at times of automatic transmission. Setting can be made over the range of 30 seconds to 60 seconds in 15-second increments by binary inputting N ((15 seconds x N) + 30 seconds). The initial value is reverted to if a value outside of the setting range is set.	0 0 1	45 seconds	
	8	External telephone setting when no sound is set	Setting to determine whether or not to use external telephone when no sound is set. When the no sound priority setting is made, reception operation is soundless but communications cannot be sent to and from an external telephone. When the external telephone priority setting is made, communications can be sent to and from an external telephone, but reception operation sounds once. "0": External telephone priority "1": No sound priority	0	External telephone priority	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
27	1-8	External telephone off-hook detection time	Set the time for detecting and confirming external telephone off-hook. Setting can be made over the range of 0ms to 2550ms in 10ms increments by binary inputting.	0 0 0 1 1 1 1 0	300ms	
28	1-8	Not used		0		
29	1-8	Not used		0 1 0 1 1 0 1 0		
30	1-8	Not used		0 0 0 0 0 0 1 0		
31	1-4	Not used		0 0 0 0	Refer to "SW31, 1-4 Initial value"	
	5	Document content print when sending (PC-Fax (Internet Fax) report table)	Setting to print images or not on the report table when sending PC-Fax (Internet Fax). "0": Not print "1": Print When the system setting is set so that images are added in the communication report table, if the destination is a PC-Fax (Internet Fax), the document contents are printed by this setting.	0	Not print	
	6-8	Not used		1 0 1		
32	1-4	T1 timer setting	Setting to determine how many seconds the line is connected when the other party's machine doesn't respond to FAX communication. Setting can be made over the range of 30 to 105 seconds in 5-second increments by binary inputting ((5 seconds x N) + 30 seconds). T1 timer is the timer used from the point where the other party's machine recognizes (CED or DCS) as FAX following line connection. 35±5 seconds according to the ITU-T standard.	0 0 1 0	40 seconds	
	5-8	Not used		0 0 0 0		
33	1-2	T4 timer setting Timer during automatic operation (+1.5 seconds at times of manual operation)	This sets the timer for up until reception of the response. +1.5 seconds at times of manual operation "00": 3 seconds "01": 4 seconds "10": 5 seconds "11": 6 seconds This is the timer for up until reception of the response to the DCS signal, etc. 3 seconds ±15% under the ITU-T standard.	0 0	3 seconds	
	3	Not used		0		
	4	Selection of date and transmission source print language <Format>	Setting to determine the format of the date and transmission source attached when transmitting FAX. "0": Date format "1": North American format	0	Date format	

SW31, 1-4 Initial value

"0000": North America/Australia/U.K./Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Slovakia/Other3/Rusia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

"1100": France/Germany

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
33	5	EOL detection timer	Setting to determine how many seconds to set the detection timer for EOL (EndOfLine) during Phase-C reception in G3. "1": Setting to 25 seconds "0": Setting to 13 seconds When error occurs in EOL detection, treat as non-detection of EOL.	0	13 seconds	
	6-8	Not used		0 1 0	Refer to "SW33, 6-8 Initial value"	
34	1-2	Not used		0 0		
	3-6	Modem transmission speed (Other than V.34) (DCS)	This sets the initial speed (upper limit) in transmission of other than V.34. Reflect in DCS. When the default setting is made, V.17 14400bps is notified to the other party's machine. Communication does not always happen at this speed. "0000": V.27ter 2400bps "1000": V.17 14400bps "0001": V.29 9600bps "1001": V.17 9600bps "0010": V.27ter 4800bps "1010": V.17 12000bps "0011": V.29 7200bps "1011": V.17 7200bps "0100": V.33 14400bps "1100": V.17 14400bps "0101": V.17 14400bps "1101": V.17 14400bps "0110": V.33 12000bps "1110": V.17 14400bps "0111": V.17 14400bps "1111": V.17 14400bps	1 0 0 0	V.17 14400bps	
	7-8	Fixing of modem speed during reception (Other than V.34) (DIS)	This sets the initial speed (upper limit) in transmission of other than V.34. When the default setting is made, V.17 14400bps is notified to the other party's machine. Communication does not always happen at this speed. "00": Not fixed "01": V.29-9600bps "10": V.27ter-4800bps "11": V.17-14400bps	0 0	Not fixed	
35	1-2	[Line1] Coding capacity during transmission and reception (V.34 communication) (reflected in DIS/DCS/ DTC)	This sets the coding capacity that is communicated to the other party's machine in V.34 communication. "00": JBIG/MMR/MR/MH "01": MMR/MR/MH "10": MR/MH "11": MH	0 0	JBIG/MMR/MR/MH	
	3-4	[Line1] Coding capacity during transmission and reception (other than V.34 communication) (reflected in DIS/DCS/ DTC)	This sets the coding capacity that is communicated to the other party's machine in communication other than V.34. "00": JBIG/MMR/MR/MH "01": MMR/MR/MH "10": MR/MH "11": MH	0 0	JBIG/MMR/MR/MH	
	5-6	Not used		1 1		
	7-8	Image capacity when polling (Reflected in DTC)	This sets the image capacity of the machine when polling. Reflect in DTC. "00": Very fine "01": Fine "10": Small letters "11": Ordinary lettering Control the image capacity when receiving by means of "Image capacity when receiving." For 600dpi, set by means of "600dpi resolution capacity setting (reflected in DTC)."	0 0	Very fine	
36	1-7	Not used		0 0 0 0 0 1 0		

SW33, 6-8 Initial value

"010": North America

"001": Australia/U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/China/Singapore/Indonesia/ Malaysia/India/Philippine/Hong Kong/Middle East/Slovakia/Other3/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

"011": Taiwan

"100": Thailand/Rusia/South Africa

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
36	8	Confirmation of DIS reception when sending	Setting to determine how to confirm DIS reception when transmitting. "0": Setting to confirm that reception occurs once when receiving NSF/ DIS and twice when there is no NSF. "1": Setting to confirm DIS is always received twice. Valid apart from V.34	0	Confirm that reception occurs once when receiving NSF/DIS and twice when there is no NSF.	
37	1-8	Not used		0 1 0 1 1 0 0 0		
38	1-2	Protocol monitor	Setting to determine whether or not the protocol monitor (recognized by the FAX) for 1 communication is printed. "00": No (do not print) "01": No (do not print) "10": Print (always) "11": Only at times of error (print) When a new communication occurs before the protocol monitor is printed, delete the old protocol data (overwrite).	0 0	No (do not print)	
	3	Line monitor display	Setting to determine whether or not the communication speed during communication and reception level during reception are displayed on the LCD. "0": Do not display on LCD "1": Display on LCD	0	Do not display on LCD	
	4	EEPROM access prohibited	When access to EEPROM in the modem controller is poor (F6-01/F7-01), since the FAX cannot be operated, this setting is put to "Prohibited" in order to enable FAX operation. EEPROM contains the modem controller adjustment value (part of the soft switch) in its memory. Setting to determine permission or prohibition of EEPROM access. "0": EEPROM access permitted "1": EEPROM access prohibited	0	Access permitted	
	5	Not used		0		
	6	SDT signal detection	Setting to determine whether or not to detect the SDT signal, which is the second dial tone when transmitting to the F-net. When the SDT signal is not detected, ordinary dialling is conducted even after 16X dialling. "0": Do not detect "1": Detect	0	Do not detect	
	7-8	Timer setting (V.21-FSK) between flag-adrs	This sets the timer between Flag-adrs when receiving FSK signals in communications of other than V.34. Reception of V.34 FSK signals does not correspond to this soft switch. "00": 6 seconds "01": 20 seconds "10": 30 seconds "11": 120 seconds Valid apart from V.34	0 1	20 seconds	
39	1	Echo countermeasure (CED tone sending interval) when receiving	Setting to determine how many seconds the interval is from sending CED or ANSam to sending the DIS FSK signal. "0": 75msec "1": 500msec	0	75msec	
	2	Echo countermeasure (setting of hold time between DIS reception and sending of signal) when transmitting.	Setting to determine how many seconds the interval is from receiving DIS to sending the DCS signal. This is only valid for communications of other than V.34. "0": 500msec "1": 800msec Valid apart from V.34	0	500msec	
	3-6	Not used		0 0 0 1		
	7-8	RTN sending line error rate	This sets the threshold value for determining RTN sending during V.17 reception. The threshold value is converted to STD. RTP sending is deemed to occur at 1/2 of this value. "00": 6line "01": 12line "10": 60line "11": 120line For example, at times of FINE reception, the threshold value is 2 times. At times of SFINE and UFINE, the threshold value is 4 times. Number of error lines in the STD standard	1 0	60 line	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
40	1	CSI sending	Setting to determine whether or not to send the CSI signal. The CSI signal contains the transmission source number. "0": Yes (send the CSI signal) "1": No (do not send the CSI signal)	0	Yes	
	2-3	CED signal sending time	This sets the time over which the CED signal is sent. "00": 3 seconds "01": 4 seconds "10": 5 seconds "11": No Setting for the ANSam signal is performed using a separate SW “51-7, 8” (V.8 mode ANSam signal sending time).	0 0	3 seconds	
	4	CED/ANSam detection time	This sets the time up until determination of the signal when detecting CED/ANSam signals. "0": 500ms "1": 1000ms	0	500ms	
	5-6	Waiting time for start of CED/ANSam sending	This sets the waiting time from the start of FAX reception status to sending of the CED/ANSam signal over the line. "00": 2.25 seconds "01": 3 seconds "10": 4 seconds The initial value is reverted to if a value outside of the setting range is set.	0 0	2.25 seconds	
	7-8	Not used		0 0		
41	1-2	Start of CNG sending	This sets the waiting time up until line connection and sending of the CNG signal over the line. "00": 0.5 seconds "01": 1 second "10": 1.5 seconds "11": 2.0 seconds	1 1	2.0 seconds (North America/Taiwan/ Middle East/Other3/Rusia)	
				0 0	0.5 seconds (Australia/ U.K./France/Germany/ Sweden/Finland/Norway/ Denmark/Netherlands/ Italy/Switcherland/Austria/ New Zealand/China/ Singapore/Indonesia/ Thailand/Malaysia/India/ Philippine/Hong Kong/ Slovakia/South Africa/ Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
	3	Time between DCS-TCF	Setting to determine how many seconds in the interval between DCS transmission and sending of the TCF signal. "0": 75msec "1": 150msec 75±20ms in the ITU-T standard.	0	75ms	
	4-8	Not used		0 1 0 0 0		
42	1-2	RCP sending count	Setting to determine the number of RCP frames sent during Phase-C sending in the ECM system. "00": 3 times "01": 6 times "10": 9 times "11": 12 times In cases where the other party’s machine cannot detect RCP frames, RCP detection becomes easier.	0 0	3 times	
	3	RTC EOL sending count	Setting to determine the number of EOL frames sent as RTC during Phase-C sending. "1": 12 times "0": 6 times In cases where the other party’s machine cannot detect RTC frames, RTC detection becomes easier.	0	6 times	
	4	F.A.S.T function	This sets the management function performed in the FAX communication procedure through the telephone line. "0": No "1": Yes Valid only in North America.	0	No	
	5-8	Not used		0 1 1 1		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
43	1	V.34 mode function (including polling when calling)	Setting to determine whether or not to make the V.34 mode valid as machine capacity when transmitting (calling and polling). "0": V.34 valid "1": V.34 invalid	0	V.34 valid	
	2	V.34 mode function (on call arrival)	Setting to determine whether or not to make the V.34 mode valid as machine capacity when receiving (on call arrival). "0": V.34 valid "1": V.34 invalid	0	V.34 valid	
	3	V.34 mode function at times of manual communication	Setting to determine whether or not to make the V.34 mode valid at times of manual communication (transmitting and receiving). "0": V.34 valid "1": V.34 invalid However, in cases where the V.34 mode function (including polling when calling) is set at 1: V.34 invalid, the V.34 mode will be rendered invalid even if this SW is set to 0: valid.	0	V.34 valid	
	4	Primary channel return mode setting	This sets the next state advanced to after completion of the primary channel phase. "0": Sh signal transmission sequence "1": PPh signal transmission sequence	1	PPh	
	5-6	External telephone off-hook detection time when simulated voltage is applied	This sets the minimum time for determining external telephone off-hook detection when simulated voltage is applied to the external telephone. "00": 48ms "01": 96ms "10": 200ms "11": 300ms	0 1	96ms	
	7	Reversion from the energy saving state (excluding preheat) when the external telephone is off-hook	Setting to determine whether or not to revert from energy saving with the external telephone off the hook in the energy saving state (excluding preheat). "0": Do not revert "1": Revert	1	Revert	
	8	Not used		0		
44	1	Echo suppressor tone setting No. 1	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V33 "1": Without V33	0	With V.33	
	2	Echo suppressor tone setting No. 2	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V17 "1": Without V17	0	With V.17	
	3	Echo suppressor tone setting No. 3	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V29 "1": Without V29	1	Without V.29	
	4	Echo suppressor tone setting No. 4	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V27 "1": Without V27	0	With V.27	
	5-8	Not used		0 1 1 1		
45	1	Error handling when transmission and receiving RTN	Setting to determine whether or not to recognize communication errors when receiving RTN signals (only in the V.17 mode). "0": Recognize errors during RTN reception "1": Do not recognize error during RTN reception	0	Recognize errors	
	2	Reception gain changeover when receiving	Setting to determine the FTT determination method when confirming TCF reception. "0": Judge the EQM value to determine if the received data is 0 "1": Only judge from the EQM value. Accordingly, TCF confirmation becomes loose	0	"0" receiving & EYE-Q	
	3-4	Transmission cable amplitude equalizer	When sending FAX signals, apply different gain from the frequency to the data signals between the modem and line. Setting to determine how high to make the 4000Hz gain compared to 0Hz. "00": 0dB "01": 4dB "10": 8dB "11": 12dB Indispensable in Australia	0 0	0dB	
	5-8	Not used		0 0 0 0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
46	1-4	V.34 mode transmission speed	This sets the communication speed (capacity) during transmission in the V.34 mode. Setting can be made over the range of 2400bps to 33600bps in 2400bps increments by binary inputting of N (2400(bps) x N). Communication is conducted at 2400bps when "0000" is set for N, and 33600bps when "1111" is set. However, when the setting is at 2400bps, it is necessary to disable "3429 symbol speed transmission enable during V.34 transmission/ symbol speed 3200 high carrier transmission enable during V.34 transmission/symbol speed 3200 low carrier transmission enable during V.34 transmission/symbol speed 3000 high carrier transmission enable during V.34 transmission/symbol speed 3000 low carrier transmission enable during V.34 transmission." Moreover, when the setting is at 33600bps, it is necessary to enable "3429 symbol speed during V.34 transmission."	1 1 1 0	33600bps	
	5-8	V.34 mode receiving speed	This sets the communication speed (capacity) during transmission in the V.34 mode. Setting can be made over the range of 2400bps to 33600bps in 2400bps increments by binary inputting of N (2400(bps) x N). Communication is conducted at 2400bps when "0000" is set for N, and 33600bps when "1111" is set. However, when the setting is at 2400bps, it is necessary to disable "3429 symbol speed transmission enable during V.34 transmission/ symbol speed 3200 high carrier transmission enable during V.34 transmission/symbol speed 3200 low carrier transmission enable during V.34 transmission/symbol speed 3000 high carrier transmission enable during V.34 transmission/symbol speed 3000 low carrier transmission enable during V.34 transmission." Moreover, when the setting is at 33600bps, it is necessary to enable "3429 symbol speed during V.34 transmission."	1 1 1 0	33600bps	
47	1	3429 symbol rate transmission enable during V.34 transmission.	Setting to determine whether or not to enable 3429Hz as the symbol rate for V.34. When this is at "disable," 3429Hz is not selected. However, only valid during transmission. "1": enable "0": disable	1	enable	
	2	Symbol rate 3200 high carrier transmission enable during V.34 transmission	When 3200Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3200 High is not selected. However, only valid during transmission. When both Low/High are at "disable," SymbolRate=3200Hz is not selected. "1": enable "0": disable	1	enable	
	3	Symbol rate 3200 low carrier transmission enable during V.34 transmission	When 3200Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3200 Low is not selected. However, only valid during transmission. "1": enable "0": disable	1	enable	
	4	Symbol rate 3000 high carrier transmission enable during V.34 transmission	When 3000Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3000 High is not selected. However, only valid during transmission. When both Low/High are at "disable," SymbolRate=3000Hz is not selected. "1": enable "0": disable	1	enable	
	5	Symbol rate 3000 low carrier transmission enable during V.34 transmission	When 3000Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3000 Low is not selected. However, only valid during transmission. "1": enable "0": disable	1	enable	
	6	Not used		1		
	7	Symbol rate 2800 enable during V.34 transmission	Setting to determine whether or not to enable 2800Hz as the symbol rate for V.34. When this is at "disable," 2800Hz is not selected. "1": enable "0": disable	1	enable	
	8	Symbol rate 2743 enable during V.34 transmission	Setting to determine whether or not to enable 2743Hz as the symbol rate for V.34. When this is at "disable," 2743Hz is not selected. "1": enable "0": disable	1	enable	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
48	1-4	V.34 Symbol Rate Mask (when receiving)	This sets the symbol rate when receiving in the V.34 mode. "0000": 2400 "0001": 2400 "0010": 2800/2400 "0011": 3000/2800/2400 "0100": 3200/3000/2800/2400 "0101": 3429/3200/3000/2800/2400 When set at a value other than those shown above, the initial value of "0101" is activated.	0 1 0 1	3429/3200/3000/2800/2400	
	5-8	Not used		0 1 0 0		
49	1-5	Not used		0 1 0 1 0		
	6	PIN code correspondence	Setting to determine whether or not to limit FAX dial number display to 16 digits. When this is set to "1: Correspond," FAX number display based on the resend key and the other party's number on the job status completion screen are displayed from the start to the 16th digit. When this SW is set as valid, it is also reflected in report contents. "0": Do not correspond "1": Correspond FAX address display limit (displayed up to the 16th digit from the front)	0	Do not correspond	
	7-8	Dial call waiting time	This sets the waiting time from the end of line connection to the start of dial call at times of automatic dial calling. "00": 3.5 seconds "01": 4 seconds "10": 5 seconds "11": 6 seconds This only functions when dial tone detection is OFF.	0 0	3.5 seconds (North America/Australia/France/Germany/Sweden/Switcherland/Austria/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Other3/Rusia)	
				0 1	4 seconds (U.K./Finland/Norway/Denmark/Netherlands/Italy/New Zealand/Slovakia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland)	
50	1-7	Not used		1 0 1 0 0 1 1		
	8	Dial tone ON detection time (during continuous detection)	This sets the waiting time from the end of line connection to the start of dial call at times of automatic dial calling. "00": 3.5 seconds "01": 4 seconds "10": 5 seconds "11": 6 seconds This only functions when dial tone detection is OFF.	0	1.5 seconds	
51	1-4	Time for prohibition of waiting at both speeds after sending CFR/MCF	Setting to determine how many seconds to prohibit waiting at both speeds (slow and fast) after sending the CFR signal from the machine. Binary inputting 200ms intervals Setting range 200 - 2800ms 1600ms when "0000" is set. 0ms when "1111" is set.	0 0 0 0	1600ms	
	5-6	Not used		0 0		
	7-8	V.8 mode ANSam signal sending time	This sets the ANSam signal sending time when the ANSam signal is sent in the V.8 mode. "00": 3 seconds "01": 4 seconds "10": 5 seconds "11": 6 seconds	0 1	4 seconds	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
52	1-4	Lower limit of dial tone ON/OFF detection time (during intermittent detection)	This sets the lower limit time for detection of dial tone ON/OFF time. Setting can be made over the range of 40ms to 490ms in 30ms increments by binary inputting. (N x 30ms) + 40ms This is only valid during intermittent DT detection.	0 0 1 0	100ms (North America/ Australia/New Zealand/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3)	
				0 0 0 1	70ms (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/Rusia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
	5-8	Upper limit of dial tone ON/OFF detection time (during intermittent detection)	This sets the upper limit time for detection of dial tone ON/OFF time. Setting can be made over the range of 400ms to 1900ms in 100ms increments by binary inputting. (N x 100ms) + 400ms This is only valid during intermittent DT detection.	0 0 1 1	700ms (North America/ Australia/New Zealand/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3)	
				1 0 0 0	1200ms (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/Rusia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
53	1-2	Not used		0 0		
	3	Line current detection at times of dial calling	Setting to determine whether or not to call dial following detection of line current during line connection at times of automatic dial calling. "1": No "0": Yes In cases where the setting is "Yes" but no line current can be detected, dial is not called but the busy re-call procedure is followed.	1	No (North America/ Taiwan/Middle East/ Other3/Rusia)	
				0	Yes (Australia/U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Slovakia/ South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	
	4	Dial tone detection	When the setting is "Yes," the dial is sent following confirmation of detection of the dial tone when the line is captured; and when the setting is "No," dial is sent without a dial tone because no confirmation of dial tone detection is carried out after line capture. "1": Yes "0": No	1	Yes (North America/U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Switcherland/ Singapore/Slovakia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
				0	No (Australia/Italy/Austria/ New Zealand/China/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3/Rusia)	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
53	5	Dial tone monitoring time	This sets the time it is deemed that the dial tone has been detected. "1": 17 seconds "0": 10 seconds	0	10 seconds (North America/Australia/U.K./ France/Sweden/Finland/ Norway/Denmark/ Netherlands/Italy/New Zealand/China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Slovakia/Other3/ Rusia/South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	
				1	17 seconds (Germany/ Switcherland/Austria)	
	6	CNG detection when calling FAX	Setting to determine whether or not to detect CNG from the other party's machine when calling FAX. When CNG is detected with CNG detection ON, this is deemed as busy. "1": CNG detection ON "0": CNG detection OFF For collision aversion	0	CNG detection OFF	
	7-8	DT/BT detection level	This sets the minimum detection level for determining that dial tone and busy tone have been detected. Signal levels not larger than this setting are ignored. "00": -43dB "01": -35dB "10": -33dB "11": -30dB DT, BT common	0 0	-43dB	
54	1-2	DT/BT detection frequency range setting	This sets the detection frequency range when detecting dial tone and busy tone. Change the setting if dial tone and busy tone are erroneously detected. "00": modem fixed "01": 420Hz - 680Hz "10": 360Hz - 440Hz "11": 245Hz - 650Hz For CTR21: 245Hz - 650Hz	1 1	"11": 245Hz - 650Hz (North America/Australia/ U.K./France/Germany/ Sweden/Finland/Norway/ Denmark/Netherlands/ Italy/Switcherland/Austria/ New Zealand/Singapore/ Philippine/Hong Kong/ Taiwan/Slovakia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland) "00": modem fixed (Thailand/India) "01": 420Hz - 680Hz (China) "10": 360Hz - 440Hz (Indonesia/Malaysia/ Middle East/Other3/Rusia)	
	3	Busy tone detection	Setting to determine whether or not to detect the busy tone signal during automatic dial calling and when the external telephone simulated call sound is ringing. "0": Detect "1": Do not detect	0	Detect	
	4-5	Busy tone detection interval	This sets the number of pulses for determining that the busy tone signal has been detected. "00": 2 pulse "01": 3 pulse "10": 4 pulse "11": 6 pulse	0 0	2 pulse (North America/ Australia/New Zealand/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3)	
				0 1	3 pulse (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/Rusia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
54	6-7	DP dial pulse count handling	This sets the number of pulses when sending the dial pulse. Since the pulse count varies according to country, change the setting as required. "00": NORMAL (Pulse=DIAL, 10=0) "01": EXTEND (Pulse=DIAL+1) "10": REVERSE (Pulse=10 - DIAL) The initial value is reverted to if a value outside of the setting range is set.	0 0	"00": NORMAL (North America/Australia/U.K./ France/Germany/Finland/ Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Slovakia/Other3/ Rusia/South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "01": EXTEND (Sweden) "10": REVERSE (New Zealand)	
	8	Not used		0		
55	1-8	Not used		0		
56	1-4	Make time (10PPS) setting	Setting of make time when dialling at 10PPS. Make time can be set from 29 to 44ms in 1ms increments by binary inputting N over the range of 0 to 15 (N + 29ms).	1 0 1 1	"1011": 40ms (North America/U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Indonesia/Philippine/ Middle East/Slovakia/ Other3/Rusia/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "0100": 33ms (Malaysia/ Taiwan/South Africa) "0110": 35ms (New Zealand/India) "1000": 37ms (Australia) "1001": 38ms (China/Singapore/ Thailand/Hong Kong)	Adjustment value
	5-8	Break time setting (10PPS)	Setting of break time when dialling at 10PPS. Break time can be set from 56 to 71ms by in 1ms increments binary inputting N over the range of 0 to 15 (N + 56ms).	0 1 0 0	"0100": 60ms (North America/U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Indonesia/Philippine/ Middle East/Slovakia/ Other3/Rusia/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "0110": 62ms (China/Singapore/ Thailand/Hong Kong) "0111": 63ms (Australia) "1001": 65ms (New Zealand/India) "1011": 67ms (Malaysia/ Taiwan/South Africa)	Adjustment value
57	1-4	Minimum pause time (10PPS) setting	Setting of minimum pause time when dialling at 10PPS. Minimum pause time can be set from 800 to 950ms in 10ms increments by binary inputting N over the range of 0 to 15 (N x 10ms + 800ms).	0 0 0 0	"0000": 800ms (Other country) "0001": 810ms (France)	Adjustment value
	5-8	Minimum pause time (20PPS) setting	Setting of minimum pause time when dialling at 20PPS. Minimum pause time can be set from 450 to 600ms in 10ms increments by binary inputting N over the range of 0 to 15 (N x 10ms + 450ms). Functions only in China and Thailand.	0 0 0 0	450ms	Adjustment value

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
58	1-4	Make time (20PPS) setting	Setting of make time when dialing at 20PPS. Make time can be set from 9 to 24ms by binary inputting N over the range of 0 to 15 (N + 9ms). Functions only in China and Thailand.	1 0 0 0	"1000": 17ms (North America/Australia/ U.K./France/Germany/ Sweden/Finland/Norway/ Denmark/Netherlands/ Italy/Switcherland/Austria/ New Zealand/Singapore/ Indonesia/Malaysia/India/ Philippine/Taiwan/Middle East/Slovakia/Other3/ Rusia/South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "1010": 19ms (China/ Thailand/Hong Kong)	Adjustment value
	5-8	Break time setting (20PPS)	Setting of break time when dialing at 20PPS. Break time can be set from 26 to 41ms by binary inputting N over the range of 0 to 15 (N + 26ms). Functions only in China and Thailand.	0 1 1 1	"0111": 33ms (North America/Australia/U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/Singapore/ Indonesia/Malaysia/India/ Philippine/Taiwan/Middle East/Slovakia/Other3/ Rusia/South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "0101": 31ms (China/ Thailand/Hong Kong)	Adjustment value
59	1-4	Setting of DTMF send level (high group)	This sets the send level of high area and low area DTMF signals in units of 1dB. Setting can be made over the range of 0dB to 15dB in 1dB increments by binary inputting.	0 1 0 1	"0101": 5dB (North America/Slovakia) "0011": 3dB (Other3/Rusia) "0110": 6dB (New Zealand/China/Singapore/ Thailand/Philippine) "0111": 7dB (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Malaysia/Taiwan/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "1000": 8dB (Australia/ Indonesia/Hong Kong/ Middle East/South Africa) "1001": 9dB (India)	Adjustment value
	5-8	Setting of DTMF send level (low group) High group - Low group: level difference	This sets the difference between the DTMF signal high area level and low area level in units of 0.5dB. Setting can be made over the range of -2.0dB to 5.5dB in 0.5dB increments by binary inputting. High group - Low group "0 0 0 0": -2.0dB "1 0 0 0": 2.0dB "0 0 0 1": -1.5dB "1 0 0 1": 2.5dB "0 0 1 0": -1.0dB "1 0 1 0": 3.0dB "0 0 1 1": -0.5dB "1 0 1 1": 3.5dB "0 1 0 0": 0.0dB "1 1 0 0": 4.0dB "0 1 0 1": 0.5dB "1 1 0 1": 4.5dB "0 1 1 0": 1.0dB "1 1 1 0": 5.0dB "0 1 1 1": 1.5dB "1 1 1 1": 5.5dB	1 0 0 1	"1001": 2.5dB (North America/Slovakia/ Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland) "1000": 2.0dB (New Zealand/China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3/Rusia/South Africa) "1010": 3.0dB (Australia/ U.K./France/Germany/ Sweden/Finland/Norway/ Denmark/Netherlands/ Italy/Switcherland/Austria)	Adjustment value
60	1-8	Not used		0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
61	1-8	Setting of DTMF minimum pause time	This sets the minimum pause time between DTMF signals when sending DTMF signals. Minimum pause time can be set by binary inputting N over the range of 0 to 255 (1ms x N). Setting can be made over the range of 50ms to 255ms in 1ms increments by binary inputting. The initial value is reverted to if a value outside of the setting range is set.	0 1 1 1 1 0 0 0	120ms	Adjustment value
62	1-5	DTMF signal send time	This sets the time that DTMF signals are sent when sending DTMF signals. Send time can be set over the rage of 70 to 310ms in 10ms increments by binary inputting N from 0 to 31 (110ms x N). The initial value is reverted to if a value outside of the setting range is set.	0 1 0 1 1	110ms	
	6	Not used		0	Refer to "SW62, 6 Initial value"	
	7	DPMUTE control	This sets whether or not to control the ports when sending the dial pulse. If the dial pulse dialing meets the difficulties, the setting must be changed. Functions only in Australia, New Zealand, U.K., France, Germany, Sweden. "0": OFF "1": ON	0	OFF	
	8	Busy tone OFF non-detection time	This sets the non-detection time on the busy tone OFF section. Change the setting in cases where noise, etc. on the busy tone ON section adversely affects the ON section. "0": 100ms "1": 300ms * Make shorter than the "busy tone OFF detection time."	0	100ms	
63	1-2	Lower limit of busy tone ON detection time	This sets the lower limit time of the ON section when detecting frequency of the busy tone signal. If busy tone signals are not detected in excess of this time, do not count as 1 pulse. "00": 250ms "01": 140ms "10": 450ms "11": 350ms	0 0	250ms (North America/ Australia/New Zealand/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3/South Africa)	
				0 1	140ms (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/Rusia/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	
	3-4	Upper limit of busy tone ON detection time	This sets the upper limit time of the ON section when detecting frequency of the busy tone signal. If busy tone signal is detected in excess of this time, do not count as 1 pulse. "00": 750ms "01": 650ms "10": 1000ms "11": 2850ms	0 0	"00": 750ms (North America/U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/China/Indonesia/ Thailand/Malaysia/ Philippine/Hong Kong/ Taiwan/Middle East/ Slovakia/Other3/Rusia/ Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland) "10": 1000ms (Australia/India) "11": 2850ms (Singapore/South Africa)	

SW62, 6 Initial value

"0": North America/Australia/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Other3/Rusia

"1": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/Slovakia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
63	5-6	Lower limit of busy tone OFF detection time	This sets the lower limit time of the OFF section when detecting frequency of the busy tone signal. If busy tone OFF signals are not detected in excess of this time, do not count as 1 pulse. "00": 250ms "01": 140ms "10": 450ms "11": 350ms	0 0	250ms (North America/ Australia/New Zealand/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3/South Africa)	
				0 1	140ms (U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/Rusia/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	
	7-8	Upper limit of busy tone OFF detection time	This sets the upper limit time of the OFF section when detecting frequency of the busy tone signal. If busy tone signal is detected in excess of this time, do not count as 1 pulse. "00": 750ms "01": 650ms "10": 1000ms "11": 2850ms	0 0	750ms (North America/ Australia/U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/China/Indonesia/ Thailand/Malaysia/ Philippine/Hong Kong/ Taiwan/Middle East/ Slovakia/Other3/Rusia/ Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
				1 0	1000ms (Singapore/India/ South Africa)	
64	1-4	Not used		0 0 0 0		
	5-8	Call signal OFF non-detection time	This sets the time for ignoring OFF signals and regarding ON time to be continuous following ON detection of the call signal (CI). This is intended to treat the PBX call signal "ring-ring" as a single call signal. Setting can be made over the range of 0ms to 1500ms in 100ms increments by binary inputting.	0 1 1 0	"0110": 600ms (North America/Australia/Taiwan/ Middle East/Other3/Rusia) "0100": 400ms (U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Slovakia/ South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland) "1010": 1000ms (New Zealand)	
65	1-4	Lower limit of call signal ON time	This sets the minimum ON time for detecting call signal (CI) pulses (number of pulses). 1 pulse is counted if the CI signal remains ON for the set ON time or longer. Setting can be made over the range of 150ms to 300ms in 10ms increments by binary inputting.	0 0 0 0	"0000": 150ms (Other country) "0010": 170ms (Australia)	
	5-8	Upper limit of call signal ON time	This sets the maximum ON time for detecting call signal (CI) pulses (number of pulses). Disregard and do not count as 1 pulse if the CI signal remains ON for the set ON time or longer. Setting can be made over the range of 3000ms to 4500ms in 100ms increments by binary inputting.	0 0 0 0	3000ms	
66	1-4	Lower limit of call signal OFF time	This sets the minimum OFF time for detecting call signal (CI) pulses (number of pulses). 1 pulse is counted if the CI signal remains OFF for the set OFF time or longer. Setting can be made over the range of 100ms to 1500ms in 100ms increments by binary inputting. Setting range When 0 is set, initial value 700ms operation takes place.	0 1 1 1	700ms	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
66	5-6	Upper limit of call signal OFF time	This sets the maximum waiting time from detection of the call signal (CI) pulse (number of pulses) to detection of the next CI signal pulse. Accordingly, if the next CI signal pulse is not detected within this time, the number of calls up to now is cleared. "00": 6.5 seconds "01": 10 seconds "10": 15 seconds "11": 20 seconds	0 0	6.5 seconds (North America/Australia/ U.K./France/Germany/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/China/Singapore/ Thailand/Malaysia/India/ Philippine/Hong Kong/ Taiwan/Middle East/ Slovakia/Other3/Rusia/ South Africa/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	
				0 1	10 seconds (Sweden/ Indonesia)	
	7-8	Not used		0 0		
67	1-8	Not used		0 1 0 1 0 1 1 0		
68	1-8	Not used		0 0 0 0 1 1 0 1		
69	1-8	Not used		0		
70	1-4	Not used		0 0 0 0		
	5	Manual calibration setting when sending	Setting to execute the manual calibration or not when sending. In case of an abnormal current waveform, the auto calibration fails and the DTFM signal is deformed. This setting provides the countermeasure against that problem. "0": Execute "1": Not execute	0	Execute	
	6	Manual calibration setting when a signal arrives	Setting to execute the manual calibration or not when a signal arrives. In case of an abnormal current waveform, the auto calibration fails and the transmission is affected. This setting provides the countermeasure against that problem. "0": Execute "1": Not execute	0	Execute	
	7-8	Not used		0 0		
71	1-2	Reception mode setting	Setting to determine whether to put the reception mode into automatic or manual. (Do not set manual reception when the handset or external telephone are not connected. However, setting is possible and reception can be performed by means of the on-hook key). In the manual reception mode, when the nighttime FAX mode is ON, the machine is activated but no calls arrive. Even if the external telephone setting is not made, answerphone connection can be set from the soft SW. "00": Automatic reception "01": Manual reception "10": Answerphone connection The initial value is reverted to if a value outside of the setting range is set. Setting can be made even without the external telephone and handset.	0 0	Automatic reception	Reception/ forwarding setting

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
71	3-4	Image capacity when receiving (Reflect in DIS, Do not reflect in DTC.)	This sets the reception resolution capacity when FAX calls arrive (when sending DIS). Reflect in DIS, Do not reflect in DTC. "00": Very fine "01": Fine "10": When small "11": Ordinary lettering	0 0	Very fine	
	5-6	Designation of reception size (indicating the width of reception capacity)	This sets this machine's receivable document width that is notified to the other party's machine when receiving. "00": By loaded cassette "01": A4 width "10": B4 (A4, B4) width "11": A3 (A3, B4, A4) width When using the loaded cassette, width is as follows depending on the maximum cassette size. A5/5.5x8.5R size: A4 width B5 size: B4 width A4/8.5x11 size: A3 width 8.5x13/8.5x14: A3 width B4 size: B4 width 11x17: B4/A3 width (changeover by means of the FAX soft SW) A3 size: A3 width A3 width is adopted in cases where a tray capable of receiving and printing facsimiles is not set and cases where all cassettes are open.	0 0	By loaded cassette	
	7-8	Not used		0 0		
72	1	Report output (when cancelled)	Setting to determine whether or not to output the communication results sheet in cases where document transmission is cancelled while in progress. "1": Output the communication results sheet. "0": Do not output the communication results sheet.	0	Do not output	
	2	Report output (when refusing reception) <FAX only>	Setting to determine whether or not to output the communication results sheet when reception is refused in FAX reception. However, other than not printing is set by means of the report output (when receiving) setting. "0": Do not output "1": Output Internet FAX is set by means of SW155-8. Irrespective of "Always print" and "Error," the results sheet is not printed.	0	Do not output	
	3	Printing of transmitted document contents at times of F code communication <FAX only>	Setting to determine whether or not to print part of the transmitted document on the communication results sheet at times of F code communication. However, only when the "Document contents printing at times of transmission" setting is valid. "0": Do not print "1": Print The "Document contents printing (results sheet) at times of transmission" setting takes priority.	0	Do not print	
	4	Not used		0		
	5	Designation of rotation direction when printing on both sides and the rear side.	Setting to determine whether to adopt vertical binding or horizontal binding when printing on both sides. When horizontal binding is selected, the header position on both sides (front and rear) is printed in the same direction. When vertical binding is selected, since the image rotates by 180 degrees, the header position is reversed. "0": Horizontal binding "1": Vertical binding	0	Horizontal binding	
	6	Selection of error page output when error occurs during FAX reception.	Setting to determine whether to output the error page or to not output it and discard it in cases where communication errors occur during FAX reception. "0": Output the error page "1": Do not output the error page However, in cases where errors occur during F code relay-instructed reception or F code confidential reception, the error page is not outputted irrespective of this SW setting.	0	Output the error page	
	7	Selection of re-send page at times of error	Select the page to be re-sent when errors occur during transmissions that do not contain F code. "0": Error page and onwards (re-send from the pages that have not been transmitted to the other party's machine). "1": All pages (re-send from the first page including pages that have been transmitted to the other party's machine). When transmitting in F code, all pages are re-transmitted irrespective of this setting.	0	Error page and onwards	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
72	8	Relay data output	Setting to determine whether or not to output documents received from the relay command station when F code relay broadcast instructions are received. "0": Output "1": Do not output	0	Output	
73	1	Not used		0		
	2	F code communication error handling	Setting to determine whether or not to re-send at times of F code communication. "0": Re-send "1": Do not re-send However, do not re-call in cases where the "Re-call permission at times of communication error" setting is at "0: Prohibited." Do not re-send when the other party's machine does not have F code functions.	0	Re-send	
	3	F code password transmission setting when the other party's machine has no password capacity	Setting to determine the communication procedure in cases where the other party's machine has no F code password capacity when conducting F code communication. "0": Disconnect with DCN "1": Send with password	0	Disconnect with DCN	
	4	Remaining receivable memory	Setting to determine whether to issue a call when remaining memory reaches 64KB or less or 128KB or less. "0": 128KB "1": 64KB	0	128KB	
	5	Setting of received document output when receiving	Setting to determine whether to output data received in FAX, Internet FAX communications en masse or to output 1 page at a time as it is received. "0": Save and output en masse following completion of reception "1": Output 1 page at a time	0	Save and output en masse following completion of reception	
	6-7	Not used		0 0		
	8	Rotated printing	Setting to determine whether or not to rotate and output received data when this is possible at times of receiving and printing FAX and Internet FAX data. "0": Permitted (rotate and print) "1": Prohibited (do not rotate and print)	0	Permitted	
74	1-4	Magnification setting in automatic reduction	Setting to determine the page length for reduced printing of documents received when automatic reduced printing is set at permitted. Percentage threshold that can be reduced (excluding reduction between fixed page sizes) Setting can be made over the range of 85% to 100% in 1% increments by binary inputting (N x 1% + 85%). The initial value of 90% is reverted to if a value outside of the setting range is set.	0 1 0 1	90%	
	5	Determination of sub-scan length (determination setting when selecting the page)	Setting to determine whether to give priority to width or length when selecting the optimum sheet when printing received data. "0": Priority to data length "1": Priority to data width	0	Priority to data length	
	6-8	Not used		0 0 0		
75	1-8	Not used		0		
76	1-8	Not used		0 0 0 0 1 0 1 0		
77	1	Setting of the reception width of 11x17 sheet	This sets the receivable document width in cases where "11 x 17 sheet" is selected as the FAX printing paper. "1": B4 (B4, A4) width "0": A3 (A3, B4, A4) width	0	A3 width	
	2	Not used		0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
77	3	Saving the setting contents for a certain period after completion of scanning	Setting to determine whether the set values of the destination and various functions are saved without returning to the default values or not when reservation is completed on the image send screen. "0": The set values are not saved. "1": The set values are saved.	0	The set values are not saved. (North America/ China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3/Rusia/South Africa)	Operation settings
				1	The set values are saved. (Australia/U.K./France/ Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/New Zealand/Slovakia/Spain/ Portuguese/Luxemburg/ Belgium/Czech/Hungary/ Greece/Poland)	
	4	Setting of communication error sound when there is no response from the other party in FAX reception	Setting to determine whether or not to sound the speaker according to the communication error sound setting in cases where the FAX signal from the other party's machine cannot be received at times of FAX reception (call issue) (i.e. cases where the other party doesn't respond or the other party is a telephone). "0": No error sound "1": Error sound Valid in cases except when the communication error completion sound setting is OFF.	0	No error sound	
	5	Re-transmission at times of no response from the other party	Setting to determine whether or not to re-call as an error in cases where transmission can't be performed due to no response from the other party. "0": Re-call "1": Do not re-call No response from the other party occurs in cases where dial is completed and the other party's machine is a telephone.	0	Re-call	
	6-8	Not used		0 0 0		
78	1	Setting to refuse reception at times of manual reception (FAX)	Setting to determine whether or not to validate refusal of reception of designated numbers. However, only at times of manual reception. "0": Receipt of designated number is not refused (invalid) "1": Receipt of designated number is refused (valid) However, at times of automatic reception, perform using a separate SW (Setting to refuse reception at times of automatic reception). Only valid in cases where the designated number reception refusal setting (FAX) is refused.	0	Do not refuse reception of designated numbers (invalid)	
	2	TSI judgment setting (no signal or all space) when refusing reception from designated numbers	Setting to determine whether to refuse or permit reception when there are no TSI signals from the other party's machine or signals are all spaced in cases where the refusal of designated number reception set by system setting is valid. "0": Reception will be permitted. "1": Reception will be refused. Only valid in cases where the designated number reception refusal setting (FAX) is refused.	0	Reception will be permitted.	
	3	TSI judgment setting (No numbers and no space can be used.)	Setting to determine whether to refuse or permit reception when TSI signals from the other party's machine are no numbers and no space can be used reception set by system setting is valid. "0": Reception will be permitted. "1": Reception will be refused. Only valid in cases where the designated number reception refusal setting (FAX) is refused.	0	Reception will be permitted.	
	4	Not used		0		
	5-6	Number of dial call pages at times of quick online transmission	This sets the number of pages for reading the timing to call dial at times of quick online transmission. This can be set from 1 to 3 pages in 1-page increments by binary inputting. (00, 01=1 page, 10=2 pages, 11=3 pages) The initial value is reverted to if a value outside of the setting range is set.	0 0	1 page	
	7	Paper selection when reception printing (LTR/A4)	Used to set whether LTR is confirmed first of all in selection of paper for reception printing or paper that provides smaller reduction rate of A4 and LTR is selected. "0": Priority on LTR/A4 reduction rate "1": Priority on LTR	0	Priority on LTR/A4 reduction rate	
	8	Not used		0		
79 | 80	1-8	Not used		0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
81	1-8	Not used		0 0 0 0 0 0 1 1		
82	1-8	Not used		0 0 0 0 0 1 0 0	Refer to "SW82, 1-8 Initial value"	
83	1-8	Not used		0	Refer to "SW83, 1-8 Initial value"	
84	1-8	Not used		0 0 0 0 0 0 1 0		
85	1-5	Reception gain correction	Corrected value of reception gain between line and modem. Setting can be made over the range of 0 (+6.0dBm) to 24 (-6.0dBm) in -0.5dBm increments by binary inputting.	0 1 1 0 0	0.0dBm	
	6-8	Not used		0 0 0		
86	1-4	Not used		0 0 0 0		
	5-8	Flag detection byte count	Set in the HDLC mode (TONAL5-ANS mode). The number of bytes the modem deems to be flag detected. Setting can be made from 0 to 15 bytes by binary inputting in 1-byte increments. Initial value is reverted to when 0 is set.	0 1 0 0	4bytes	
87	1-2	Minimum flag count between frames	Set when initializing the modem in the FAX mode. Minimum flag count between frames when transmitting continuous frames. "00": 2-flag "01": 3-flag "10": 4-flag "11": 5-flag	0 0	2-flag	
	3	Not used		0		
	4	Ring detection signal select	Set which signal is monitored and processed when detecting CI signals. "0": Ring detection circuit "1": Silicon DAA-RGDT signal	0	Ring detection circuit	
	5	V.17 carrier frequency	Set during configuration of the V.17 mode. Carrier frequency in the V.17 mode. "0": 1800Hz "1": 1700Hz	0	1800Hz	

SW82, 1-8 Initial value

"00000100": North America/China/Thailand/Malaysia/Philippine/Taiwan/Rusia
"00001000": Singapore/Indonesia/India/Hong Kong/Middle East
"00100100": Other3
"00101000": New Zealand/South Africa
"00101100": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"01100100": Australia

SW83, 1-8 Initial value

"00000000": North America/Australia/New Zealand/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Rusia/South Africa
"00010000": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Other3/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
87	6	V.33 carrier frequency	Set during configuration of the V.33 mode. Carrier frequency in the V.33 mode. "0": 1800Hz "1": 1700Hz	0	1800Hz	
	7-8	V17/V33/V29/ V27terTCF reception judgment EQM threshold values	Threshold value for returning FTT or CFR; return FTT when the setting here is exceeded. "00": 0x20 "01": 0x40 "10": 0x58 "11": 0x7f	1 0	0x58	
88	1-2	Primary channel foul back EQM threshold value at times of V.34 reception	If the set value in this setting is exceeded, the speed in the following phase C is decreased. "00": 0x20 "01": 0x40 "10": 0x58 "11": 0x7f	1 0	0x58	
	3-8	Not used		1 1 0 1 0 0		
89	1-4	Symbol speed selection threshold 1 (Allowable range for telephone line characteristics distortion level)	This factor determines which symbol rate is selected with respect to the line distortion measured in line probing. The characteristic is such that the smaller the value is, the lower the symbol rate is set. Setting can be made over the range of 0 (-6dB) to 15 (+6dB) in -1dB increments by binary inputting (see below). 1: -6dBm, 2: -6dBm 3 - 14: -5dBm - 4dBm (1dBm increments) 13: 5dBm 14: 6dBm, 15: 6dBm	0 1 0 1	-3.0dBm	
	5-8	Symbol speed selection threshold 2 (Minimum S/N allowable range level)	This factor determines which symbol rate is selected with respect to the S/N measured in line probing. The characteristic is such that the larger the value is, the lower the symbol rate is set Setting can be made over the range of 0 (-6dBm) to 15 (+6dBm) in -1dBm increments by binary inputting (see below). 1: -6dBm, 2: -6dBm 3 - 14: -5dBm - 4dBm (1dBm increments) 13: 5dBm 14: 6dBm, 15: 6dBm	1 0 0 0	0.0dBm	
90	1-4	Primary channel communication speed selection threshold value	This sets the standard for determining speed in Phase-C by line probing in Phase 2. -8dBm: Judgment becomes loose (easy to select high speed), +7dBm: Judgment becomes harsh (difficult to select high speed). Setting can be made over the range of 0 (-8dBm) to 15 (+7dBm) in 1dBm increments by binary inputting.	1 0 0 0	0.0dBm	
	5-8	High speed CD OFF fixing time	This is used for looping when it is not possible to detect the end of RCP and other high-speed signals during high-speed reception in the V.34 ECM mode. Setting can be made over the range of 0 (150ms) to 15 (1650ms) in 100ms increments by binary inputting.	0 0 0 0	150ms (North America/ Australia/Norway/ Switcherland/Austria/New Zealand/China/Singapore/ Indonesia/Thailand/ Malaysia/India/Philippine/ Hong Kong/Taiwan/Middle East/Other3)	
				0 0 1 0	350ms (U.K./France/ Germany/Sweden/ Finland/Denmark/ Netherlands/Italy/ Slovakia/Rusia/South Africa/Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
91	1-2	LVCS monitoring cycle	This is the cycle over which the resistor LVCS, which displays the line current, is monitored. When LVCS=0, the speaker is muted to prevent the abnormal sound. "00": Do not monitor "01": 10ms "10": 20ms "11": 30ms	1 0	20ms	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
91	3-8	Not used		0 0 0 0 0 0		
92	1-4	External connection volume	Tone setting at times of remote changeover. Setting range 0 - 8: -3.0dBm increments 8 - 12: -4.0dBm increments 12 - 14: -8.0dBm increments 15: ∞ (mute)	0 1 0 0	-12dB	
	5-8	Not used		0 0 0 0		
93 | 94	1-8	Not used		0		
95	1-8	Not used		1 0 1 0 1 1 0 1		
96	1-8	Not used		0		
97	1-8	Not used		0 1 0 1 1 0 0 0		
98	1-5	Not used		1 1 0 1 0		
	6	Setting of timeout monitoring between frames	Setting to determine whether or not to monitor between frames during high-speed reception in the ECM mode other than V.34. "1": Do not monitor "0": Monitor When monitoring, run timeout if 15 seconds opens between frames.	0	Monitor	
	7-8	Modem lightning protection measures	Function that corresponds to IEC lightning surge requirements as prescribed in the European CE standard. In cases where the machine cannot shift from CFR or MCF to high-speed signals (image signals) due to lightning interference, this extends the MPS waiting time. (Usually, communication error occurs at 4 seconds according to the T2 timer). "00": 0 second "01": 20 seconds "10": 30 seconds "11": 40 seconds	0 0	0 second (North America/ New Zealand/China/ Singapore/Indonesia/ Thailand/Malaysia/India/ Philippine/Hong Kong/ Taiwan/Middle East/ Other3/Rusia)	
				0 1	20 second (Australia/U.K./ France/Germany/Sweden/ Finland/Norway/Denmark/ Netherlands/Italy/ Switcherland/Austria/ Slovakia/South Africa/ Spain/Portuguese/ Luxemburg/Belgium/ Czech/Hungary/Greece/ Poland)	
99	1-8	Not used		0		
100	1-8	CNG detection completion time	This sets the CNG detection time when the answerphone connection setting is made. Setting can be made over the range of 0 second to 255 seconds in 1-second increments by binary inputting. Unlimited when 0 is set.	0 0 1 0 1 1 0 1	45 seconds	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
101 | 108	1-8	Not used		0		
109	1-8	Not used		1 0 1 0 1 0 1 0	Refer to "SW109, 1-8 Initial value"	
110	1-8	Not used		0 0 0 1 0 0 1 0		
111	1-8	Not used		1 0 1 0 1 0 1 0		
112	1-8	Not used		0 0 0 0 0 1 0 1		
113	1-8	Not used		1 0 0 1 0 1 1 0		
114	1-8	Not used		0		
115	1-8	Not used		1 0 0 0 1 0 0 0	Refer to "SW115, 1-8 Initial value"	
116	1-8	Not used		0 0 1 0 0 0 0 0		

SW109, 1-8 Initial value

"10101010": North America/Australia/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Slovakia/Other3/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

"10001010": U.K./France/Germany/Rusia

SW115, 1-8 Initial value

"10001000": Other country

"10010000": South Africa

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
117	1-8	Not used		0 0 0 0 1 0 1 0	Refer to "SW117, 1-8 Initial value"	
118	1-8	Not used		0 0 0 0 0 0 1 0	Refer to "SW118, 1-8 Initial value"	
119	1-8	Not used		0 0 0 0 1 0 1 1	Refer to "SW119, 1-8 Initial value"	
120	1-8	Not used		0 1 1 1 1 0 0 0		
121	1-8	Not used		0 1 0 1 1 0 0 1	Refer to "SW121, 1-8 Initial value"	

SW117, 1-8 Initial value

"00001010": North America/China/Singapore/Thailand/Malaysia/Philippine/Hong Kong/Middle East/Other3
"00001001": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Indonesia/Slovakia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"00001011": Australia/New Zealand/India/Taiwan/Rusia

SW118, 1-8 Initial value

"00000010": North America/Taiwan/Middle East/Other3
"00010010": China/Hong Kong
"00110010": India
"01100010": Singapore/South Africa
"01010010": Indonesia/Thailand/Malaysia/Philippine
"10000010": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/Slovakia/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"10100010": Australia/Rusia

SW119, 1-8 Initial value

"00001011": North America/Indonesia/Philippine/Taiwan/Middle East/Other3/Rusia
"00101011": Australia/New Zealand/China/Singapore/Thailand/Malaysia/India/Hong Kong
"01001011": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW121, 1-8 Initial value

"01011001": North America/Slovakia
"00111000": Other3/Rusia
"01101000": New Zealand/China/Singapore/Thailand/Philippine
"01111000": Malaysia/Taiwan
"01111001": Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"01111010": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria
"10001000": Indonesia/Hong Kong/Middle East/South Africa
"10001010": Australia
"10011000": India

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
122	1-8	Not used		1 0 1 1 0 1 0 0	Refer to "SW122, 1-8 Initial value"	
123	1-8	Not used		0	Refer to "SW123, 1-8 Initial value"	
124	1-8	Not used		1 0 0 0 0 1 1 1	Refer to "SW124, 1-8 Initial value"	
125	1-8	Not used		0		
126	1-8	Not used		0	Refer to "SW126, 1-8 Initial value"	
127	1-8	Not used		0 0 0 0 0 1 1 0	Refer to "SW127, 1-8 Initial value"	
128	1-8	Not used		0	Refer to "SW128, 1-8 Initial value"	

SW122, 1-8 Initial value
"10110100": North America/U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Indonesia/Philippine/Middle East/Slovakia/Other3/Rusia/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"01001011": Malaysia/Taiwan/South Africa
"01101001": New Zealand/India
"10000111": Australia
"10010110": China/Singapore/Thailand/Hong Kong

SW123, 1-8 Initial value
"00000000": Other country
"00010000": France

SW124, 1-8 Initial value
"10000111": North America/Australia/U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/Singapore/Indonesia/Malaysia/India/Philippine/Taiwan/Middle East/Slovakia/Other3/Rusia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"10100101": China/Thailand/Hong Kong

SW126, 1-8 Initial value
"00000000": North America/New Zealand/China/Indonesia/Thailand/Malaysia/Philippine/Hong Kong/Taiwan/Middle East/Other3
"00000010": India
"00000011": Australia/Singapore/South Africa
"00000100": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Rusia/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW127, 1-8 Initial value
"00000110": North America/Australia/Taiwan/Middle East/Other3
"00000100": China/Indonesia/Thailand/Malaysia/Philippine/Hong Kong
"00001010": New Zealand
"00100100": Singapore/India/South Africa
"01000100": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland
"01000110": Rusia

SW128, 1-8 Initial value
"00000000": Other country
"00100000": Australia

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
129	1-8	Not used		0 1 1 1 0 0 0 0	Refer to "SW129, 1-8 Initial value"	
130	1-8	Not used		0 0 0 1 0 0 0 0	Refer to "SW130, 1-8 Initial value"	
131	1-8	Not used		0 0 1 0 0 0 1 1	Refer to "SW131, 1-8 Initial value"	
132	1-8	Not used		0 0 0 0 0 0 1 1		
133	1-8	Not used		0 0 0 0 0 1 0 0	Refer to "SW133, 1-8 Initial value"	

SW129, 1-8 Initial value

"01110000": North America/Australia/U.K./France/Germany/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/New Zealand/China/Singapore/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Slovakia/Other3/Rusia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

"01110100": Sweden/Indonesia

SW130, 1-8 Initial value

"00010000": North America/Singapore

"00000000": Australia/China/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Other3

"00000010": Italy/Austria/Rusia

"00010010": U.K./France/Germany/Finland/Norway/Denmark/Netherlands/Switcherland/Slovakia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

"00110010": Sweden

"01000000": New Zealand

SW131, 1-8 Initial value

"00100011": North America/Australia/New Zealand/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Other3

"00011000": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Rusia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW133, 1-8 Initial value

"00000100": North America/China/Thailand/Malaysia/Philippine/Taiwan/Rusia

"00001000": Singapore/Indonesia/India/Hong Kong/Middle East

"00100100": Other3

"00101000": New Zealand/South Africa

"00101100": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

"01100100": Australia

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
134	1-8	Not used		0	Refer to "SW134, 1-8 Initial value"	
135	1-8	Not used		0 0 0 0 0 0 1 0		
136	1-8	Not used		0 1 1 0 0 1 1 1		
137	1-8	Not used		0 0 0 0 0 1 0 0		
138	1-8	Not used		0 0 0 0 0 0 1 0		
139	1-8	Not used		1 0 1 1 0 1 0 0		
140	1-8	Not used		0 1 0 1 1 0 0 0		
141	1-8	Not used		1 0 0 0 0 0 0 0	Refer to "SW141, 1-8 Initial value"	

SW134, 1-8 Initial value

"00000000": North America/Australia/New Zealand/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Rusia/South Africa

"00010000": U.K./France/Germany/Sweden/Finland/Norway/Denmark/Netherlands/Italy/Switcherland/Austria/Slovakia/Other3/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW141, 1-8 Initial value

"10000000": North America/Australia/Norway/Switcherland/Austria/New Zealand/China/Singapore/Indonesia/Thailand/Malaysia/India/Philippine/Hong Kong/Taiwan/Middle East/Other3

"10000010": U.K./France/Germany/Sweden/Finland/Denmark/Netherlands/Italy/Slovakia/Rusia/South Africa/Spain/Portuguese/Luxemburg/Belgium/Czech/Hungary/Greece/Poland

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
142	1-8	Not used		1 0 0 0 0 0 0 0		
143 | 144	1-8	Not used		0		
145	1-8	Not used		1 0 1 0 1 1 0 1		
146 | 153	1-8	Not used		0		
154	1	Addition of Content-X-CIAJWNETFAX field (in internet FAX send)	Setting to determine whether or not "CONtent-X-CIAJWNETFAX" is added to the mail field in Internet FAX send. By adding this field, printing of the mail text on the Internet FAX receiving side can be inhibited (however, this function is only valid when the Internet FAX receiving side supports this field). "0": Do not add field "1": Add IGNORE	0	Do not add	
	2	Nighttime FAX mode setting <when Internet FAX reception is not set>	Setting to determine whether or not to enter the minimum power consumption mode when the panel power SW is turned OFF. However, this function is only valid when Internet FAX reception is not set. "0": Enter the nighttime FAX mode "1": Do not enter the nighttime FAX mode	0	Enter the nighttime FAX mode	
	3	Pseudo-nighttime mode setting <when Internet FAX reception is set>	Setting to determine whether or not to enter the minimum power consumption mode when the panel power SW is turned OFF. However, this function is only valid when Internet FAX reception is set. "0": Enter the pseudo-nighttime FAX mode (do not enter the nighttime mode) "1": Do not enter the pseudo-nighttime FAX mode (enter the nighttime mode)	0	Enter the pseudo-nighttime mode	
	4	Processing at times of mail reception (when the Content-X-CIAJWNETFAX field is not yet received)	Setting to determine whether or not to print the mail text in cases where there is no "CONtent-X-CIAJWNETFAX" in the mail field when mail is received by Internet FAX. "0": Do not print mail letters "1": Print the main text of mails Exclude confirmed sent mails	0	Do not print.	Internet FAX reception setting
	5	Setting of reduced printing when receiving A3 by Internet FAX	Setting to determine whether or not to print reduced to 11 x 17 inch sheet size when receiving A3 width documents when 11 x 17 inch size sheet is set in Internet FAX reception. "0": Reduce "1": Do not reduce (discard) When not reducing, the area that cannot be printed is scrapped. Reduce the overall document to 94% when conducting reduced printing.	1	Discard	Internet FAX reception setting
	6	Setting of reduced printing when receiving letters by Internet FAX	Setting to determine whether or not to print reduced to A4 size sheet when receiving 8.5 x 11 (letter) size documents when A4 size sheet is set in Internet FAX reception. "0": Reduce "1": Do not reduce (discard) Reduce the overall document to 94% when conducting reduced printing.	1	Discard	Internet FAX reception setting
	7	Setting of text printing when receiving mails without attached files	Setting to determine whether or not to print mail texts when incoming mails do not have attached files. "0": Do not print mail letters "1": Print the main text of mails (Communication results error)	0	Do not print.	
	8	Resolution type of internet FAX	This sets the type of reading resolution when sending Internet FAX. "0": inch type "1": mm type	0	inch type	

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
155	1-6	Not used		1 1 0 0 1 0		
	7	Selection of the Internet FAX date and transmission source print language <format>	Setting to determine the format of the date and transmission source attached when transmitting Internet FAX. "0": Date format "1": North American format	0	Date format	
	8	Report output (when reception is refused) <Internet FAX only>	Setting to determine whether or not to output the communication results sheet when reception is refused in Internet FAX reception. However, other than not printing is set by means of the report output (when receiving Internet FAX) setting. "0": Do not output "1": Output FAX is set at "Report output (when reception is refused) <FAX only>." Irrespective of "Always print" and "Error," the results sheet is not printed.	0	Do not output	
156	1	Display setting at times of NW trouble	Setting to determine whether or not to display on the operation panel when network trouble occurs while the NIC card is loaded. "0": Display trouble "1": Do not display trouble (do not display "CE-00" and "CE-01")	0	Display trouble	
	2	Job log memory at times of successive communication	Setting to determine whether successive communications in the job log are treated as 1 communication at a time or as 1 successive communication. "0": Treat as 1 successive communication "1": Treat each communication as 1	0	Treat each communication as 1	
	3	Valid/Invalid setting of Internet FAX A4, 8.5 x 11 threshold	When printing received Internet FAX data with A4 and 8.5 x 11 paper in the tray, this setting determines whether to make threshold values in paper selection valid or invalid. "0": Valid "1": Invalid Setting of FAX received data is performed by means of a separate SW.	1	Invalid	
	4-7	Not used		0 0 1 0		
	8	Setting of mail reception method	Setting to determine whether to receive mail in the mail server as SMTP or POP3. "0": POP3 "1": SMTP	0	POP3	
157	1-5	Not used		0 0 0 0 0		
	6	Setting of transmitted data upper limit value (FTP/desktop/shared folder)	When transmitting to FTP, desktop or a shared folder, this setting determines whether or not to stop transmission of data as over the upper limit if the image data size of 1 job is found to be in excess of the value set for the "transmitted data upper limit (FTP/desktop/shared folder)." "0": OFF "1": ON	0	OFF	
	7-8	Transmitted data upper limit (FTP/desktop/ shared folder)	This sets the upper limit for image data size in 1 job in cases where the transmitted data upper limit (FTP/desktop/shared folder) is set at "ON." "00": 50Mbyte "01": 150Mbyte "10": 300Mbyte The initial value is reverted to if a value outside of the setting range is set.	0 1	150MByte	
158	1-8	Not used		0 0 0 0 0 0 1 0		

SW No.	Bit No.	Item	SW selection and function	Initial value		System settings
159	1	Not used		0		
	2	Received data E-mail forwarding	Setting to determine whether to make the "Received data E-mail forwarding" function that can be registered from the Web valid or invalid. "0": Invalid "1": Valid	0	Invalid	(WEB) Control setting
	3	Prohibition of forwarded table registration	Setting to determine whether to make the "Prohibition of forwarded table registration" function that can be registered from the Web valid or invalid. "0": Permitted "1": Prohibited	0	Permitted	(WEB) Control setting
	4	Prohibition of forwarded table correction	Setting to determine whether to make the "Prohibition of forwarded table correction" function that can be registered from the Web valid or invalid. "0": Permitted "1": Prohibited	0	Permitted	(WEB) Control setting
	5	Prohibition of forwarding permission revision	Setting to determine whether to make the "Prohibition of forwarding permission revision" function that can be registered from the Web valid or invalid. "0": Permitted "1": Prohibited	0	Permitted	(WEB) Control setting
	6	Received data print conditions in user transfer	Setting to determine whether to make the "Received data print conditions" function that can be registered from the Web valid or invalid. "0": Always print "1": Error	1	Error	(WEB) Control setting
	7	Not used		0		
	8	Received data print conditions at Administrator transmission	Setting to determine whether or not to print the received data in main unit at the administrator transmission. "0": Always print "1": Print on error	1	In case of an error	
160 | 170	1-8	Not used		0		

[6] TROUBLE CODE

1. Trouble code list

Trouble code		Trouble code content	Trouble detection	Mechanism	Option	Electricity	FAX	Supply
Main code	Sub code							
F6	00	Communication trouble between the MFP and the FAX	MFP				●	
	01	FAX board EEPROM read/write error	FAX				●	
	04	FAX MODEM operation trouble	FAX				●	
	21	Combination error between the TEL/LIU PWB and the FAX soft switch	FAX				●	
	30	Access error to power controller on the FAX board (FAX detection)	FAX				●	
	97	FAX PWB incompatibility trouble	FAX				●	
	98	Combination error between the FAX-BOX PWB destination information and the machine destination information.	FAX				●	
U1	01	Battery trouble	MFP			●		

2. Details of trouble code

A. Details of trouble code

F6-00 MFP-FAX communication trouble (MFP detection)

Trouble content		Communication establishment error/Framing/Parity/ Protocol error
Section		MFP
Case 1	Cause	FAX unit PWB connector connection error
	Check and remedy	Check the connector connection between the FAX unit PWB and the MFPcnt PWB.
Case 2	Cause	FAX unit PWB - MFPcnt PWB harness trouble
	Check and remedy	Check the connector harness between the FAX unit PWB and the MFPcnt PWB.
Case 3	Cause	FAX unit PWB mother board connector pin breakage
	Check and remedy	Check the machine grounding.
Case 4	Cause	FAX unit ROM trouble/No ROM/Improper insertion of ROM/ROM pin breakage
	Check and remedy	Check the FAX unit PWB ROM.

F6-01 FAX board EEPROM read/write error

Trouble content		EEPROM access error (read/write)
Section		FAX
Case 1	Cause	EEPROM trouble
	Check and remedy	Check that no trouble occurs after replacement of EEPROM. Execute the memory check of SIM66-3 to insure that EEPROM can be accessed.
Case 2	Cause	FAX PWB EEPROM access circuit trouble
	Check and remedy	Replace the PWB. In this case, not need to execute the simulation.

F6-04 FAX MODEM operation trouble

Trouble content		FAX PWB MODEM chip operation trouble
Section		FAX
Case 1	Cause	FAX PWB MODEM chip operation trouble
	Check and remedy	Replace the FAX PWB MODEM chip.
Case 2	Cause	The FAX PWB MODEM chip cannot be accessed.
	Check and remedy	Replace the FAX PWB.

F6-21 Combination error between the TEL/LIU PWB and the FAX soft switch

Trouble content		Combination error between the TEL/LIU PWB and the FAX PWB information (soft switch)
Section		FAX
Case 1	Cause	The destination of the installed TEL/LIU PWB differs.
	Check and remedy	Check the destination of the installed TEL/LIU PWB.
Case 2	Cause	The FAX PWB information (soft switch) differs.
	Check and remedy	Check the FAX PWB information (soft switch).
Case 3	Cause	TEL/LIU PWB trouble
	Check and remedy	Replace the TEL/LIU PWB.

F6-30 Access error to 1-chip microprocessor on the FAX board (FAX detection)

Trouble content		Access error (read/write) to 1-chip microprocessor on the FAX board
Section		FAX
Case 1	Cause	Program writing error (or no writing) to the 1-chip microprocessor
	Check and remedy	Use SIM66-24 to rewrite the 1-chip microprocessor program.
Case 2	Cause	1-chip microprocessor trouble
	Check and remedy	Replace the 1-chip microprocessor chip. When replacing, use SIM66-42 to rewrite the 1-chip microprocessor program.
Case 3	Cause	FAX PWB 1-chip microprocessor access circuit trouble
	Check and remedy	Replace the FAX PWB.

F6-97 The FAX PWB does not match with the machine model.

Trouble content		The FAX PWB identification model does not match with the machine model.
Section		FAX
Case 1	Cause	An improper type of FAX PWB is installed to the machine.
	Check and remedy	Replace the FAX PWB with a proper one.

F6-98 Combination error between the FAX PWB destination information and the machine destination information.

Trouble content		Combination error between the FAX PWB destination information and the machine destination information.
Section		FAX
Case 1	Cause	Combination error between the destination information written in EEPROM on the FAX PWB and the destination information of the machine (set with SIM26-6).
	Check and remedy	1) Check the destination of the FAX PWB. 2) Check the destination of the machine. (SIM26-6) 3) Use a proper combination of the machine and the FAX PWB.

U1-01 Battery trouble

Trouble content		Backup SRAM battery voltage fall
Section		MFP
Case 1	Cause	1) Battery life 2) Battery circuit abnormality
	Check and remedy	Check that the battery voltage is about 2.5V or above.

3. Communication report codes

After completion of communication, the communication report table, the communication management table, and the protocol are described on the communication report column.

The communication report code is composed as follows:

Communication report: XX (XXXX)

The upper 2 digits of the communication report code:
Communication report code of 00 – 99 (Refer to the list of the communication report codes.)

The lower 4 digits of the communication report code:
Used by the serviceman.

The upper 2 digits: Communication report sub code 1 (Refer to the list of the communication sub code 1.)

The lower 2 digits: Communication report sub code 2 (Refer to the list of the communication sub code 2.)

NOTE: • The communication report sub code 1 and sub code 2 are in hexadecimal notation. (The others are in decimal notation.)
• The communication report sub code 1 is not used in the MX-2300/2700 series.

A. Communication report code list

Report code	Final receive signal (Send side)	Final receive signal (Receive side)
0	Abnormal signal	Abnormal signal
1	NSF, DIS	(SID), (SUB), NSS, DCS
2	CFR	(PWD), (SEP), NSC, DTC
3	FTT	EOP
4	MCF	EOM
5	PIP, PIN	MPS
6	RTN, RTP	PRI-Q
7	No signal, DCN	DCN
8	PPR	PPS-EOP
9		PPS-EOM
10		PPS-MPS, PPS-NULL
11	RNR	RR
12	CTR	CTC
13	ERR	EOR-Q
14		PPS-PRI-Q
16	Abnormal signal	Abnormal signal
17	NSF, DIS	SID, SUB, NSS, DCS
18	CFR	PWD, SEP, NSC, DTC
19	FTT	PPS-EOP
20	MCF	PPS-EOM
21	PIP, PIN	PPS-MPS, PPS-NULL
22	RTN, RTP	PRI-Q
23	No signal, DCN	DCN
24	PPR	
25	RNR	RR
26	CTR	CTC
27	ERR	EOR-Q
28		PPS-PRI-Q
29	V.8 Phase-1	V.8 Phase-1
30	V.8 Phase-2	V.8 Phase-2
31	V.8 Phase-3	V.8 Phase-3

NOTE: For report codes 16 – 31, V.34 MODE COMMUNICATION.

Report code (Communication result)	Display in the column of result	Content of communication interruption
0 – 31	Refer to “previous table”.	Depends on the point of communication interruption. For 16 or later, V.34 mode communication.
33	BUSY	The calling side cannot establish connection with the remote party.
34	CANCEL	A communication interruption command is made during sending/receiving. The interruption key is pressed for interruption of input. <Send/Receive/Polling/Bulletin board>
35	NG35 XXXX	Power is failed during sending/receiving. <Send/Receive/Polling/Bulletin board>
36	(No record paper)	
37	(Record paper jam)	
38	MEM. FULL	Memory over during reception. <Receive/Polling> Print is not made during reception in acting reception inhibit. <Receive/Polling>
39	(Number of paper unmatched)	
40	(Relay not received)	
41	LENGTH OVER	The send data length of one page exceeds the limit (2m) in sending. <Send/Bulletin board>
42	LENGTH OVER	The receive data length of one page exceeds the limit. <Receive/Polling>
43	(Communication) (OK)	Speaking before data transmission
44	ORIGINAL ERROR	A document jam occurs in direct sending. <Send>
45	(Picture quality error)	
46	NO RESPONSE	The FAX signal from the remote party is not detected within T1 time. <Send/Polling>
47	TX DECODE ERROR	A decode error occurs in the FAX board. <Send/Bulletin board>
48	OK	Normal end of communication
	OK REPLY RECEIVE	OK in Internet FAX send with reception confirmation.
49	NO RX POLL	The called side does not have polling function in polling reception. <Polling> The called side has no data to send. <Polling>
50	RX POLL FAIL	In polling reception, DCN is received for DTC. <Polling> In polling sending, there is no send data. <Bulletin board>

Report code (Communication result)	Display in the column of result	Content of communication interruption
51	PASS # NG	In poling sending, the allow number is not matched. <Bulletin board> In polling sending, the system number is not matched. <Bulletin board>
52	(No confidential function in remote party)	In confidential sending, the remote party does not have confidential function. <Send> (Including other company's machines) 1) The NSF signal has not "Confidential function" bit. 2) The NSF is not a Sharp machine.
53	(Confidential not received)	1) In confidential sending, DCN is received for NSS. <Send>
54	(Confidential BOX NO NG)	1) In confidential reception, a confidential box number which is not registered is specified.
55	(No relay function in remote party)	In relay command sending, the remote machine has no relay function. <Send> (Including other company's machine) 1) The NSF signal has not "Confidential function" bit. 2) The NSF is not a Sharp machine.
56	NO REL RX	1) In relay command sending, DCN is received for NSS. <Send> 2) In relay command reception, a remote station number which is not registered is specified. <Receive> 3) In F code relay broadcasting, an F code relay command is received.<Receive>
57	(Relay ID unmatched)	1) In relay command reception, the relay ID does not match. <Receive>
58	REJECTED	In reception, data are sent from a remote machine of receive inhibit number. <Receive> (Not rejected in the bulletin board send or the F code bulletin board send.)
59	RX NO F-CODE POLL	In F code polling (calling), the remote machine has no DIS bit 47 (polling function). <Polling> In F code polling (calling), the called side has no send data. (DIS bit 9 is 0.)<Polling>
60	NO F-CODE POLL	In F code polling (calling), DCN is received for SEP. <Polling> In bulletin board, there is no send data for SEP. <Bulletin board>
61	RX POLL # NG	In bulletin board, the sub address (bulletin board number (SEP)) is not matched. <Bulletin board>
62	F POLL PASS # NG	In bulleting board, the pass code (PWD) is not matched. <Bulletin board>
63	NO F FUNC	In F code sending, the remote machine has no DIS bit 49 (sub address function). <Send> (Check that the remote machine conforms to F code.)
64	NO F-CODE	In F code sending : <Send> 1) DCN is received for SUB. --- Check the box number. 2) DCN is received for SID. --- Check the box number and pass code. In F code receiving : <Receive> "F code relay broadcasting" or "F code confidential reception" is "Inhibited with soft SW."
67	F PASS # NG	In F code receiving, the pass code (SID) is not matched. <Receive>
68	BOX NO. NG	In F code reception, a box number which is not registered is specified. (SUB is not matched.) <Receive>
69	MEMORY OVER	Memory over in quick online sending <Send>
70	(JOB MEMORY OVER)	In PC-FAX reservation, the number of remote parties is exceeded. <Send>
71	NG71 XXXX *1	In PC-FAX reservation, data sent from PC includes some errors. <Send>
72	(NG72 XXXX) *1	In department management setting on the machine side: • In reservation from PC-FAX or PC-Internet FAX, a department number which is not registered on the machine side is specified. <Send> • In reservation from PC-FAX or PC-Internet FAX, the department number is not specified. <Send>
73	NG73 XXXX *1	In reservation from PC-FAX or PC-Internet FAX, the use quantity limit is exceeded. <Send>
74	NG74 XXXX *1	When reserving specified filing in document filing in PC-FAX or PC-Internet FAX; • The pass-code for the folder is set on the machine side and the pass-code from PC-XXX does not match with it. <Send> • The pass-code for the folder is set on the machine side and no pass-code is specified by PC-XXX. <Send>
75	NG75 XXXX *1	• Reservation cannot be made due to machine busy. (Reservation of PC-FAX cannot be accepted.) • When "PC-FAX or PC-internet FAX send inhibit" is set on the machine side.
76	NG76 XXXX *1	Reserved with receive confirmation request in PC-Internet FAX, but the Internet FAX sender is not registered on the machine side. <Send>
77	NG77 XXXX *1	In reserving specified filing in PC-FAX or PC-Internet FAX, the machine has no filing function.
78	NG78 XXXX *1	The filing function is inhibited on the machine side when filing specification is reserved by PC-FAX or PC-Internet FAX.
79	NG79 XXXX *1	An authentication error occurs when PC-FAX or PC-Internet FAX is reserved.
80	NG80 XXXX *1	NIC connect failure (network abnormality) • Check for disconnection of cables. • A network trouble (CE-XX) occurs. • The port is set to DISABLE. • Authentication of the POP server is failed when POP before SMTP is enabled.
81	NG REPORT	In Internet FAX send, reply of receive confirmation of the remote machine is not normal. (Including PC-Internet FAX). • Error of the disposition-modifier. • The disposition modifier is not in an error, and the disposition type is other than displayed, dispatched, or processed.
82	NO REPORT	In Internet FAX send, time-out occurs in waiting for receive confirmation from the remote machine. (Including PC-Internet FAX). • In a case where send confirmation wait time-out time is other than 0, when send confirmation reply from an Internet FAX destination is not received. • Recalls of the set number of recalls are performed, but send confirmation reply from an internet AFX destination is not received.
83	NG LIMIT	In E-mail/FTP, Internet FAX send, the send data size exceeds the upper limit of send data.
84	REJECTED	In e-mail receive, a sender is registered in receive reject address/domain. <Receive>

Report code (Communication result)	Display in the column of result	Content of communication interruption
85	NG85 XXXX *1	In e-mail receive, an error occurs in communication with POP3 server. • Header acquisition error. • Time-out during mail receive
86	RECEIVED	In e-mail receive, an unsupported attached file is received. Only the TIFF-F type is supported for attached files. • The TIFF-F type of the attached file cannot be recognized. • There is no attached file.
87	NG87 XXXX *1	In e-mail receive, an attached file cannot be stored in memory. • Memory over
88	NG88 XXXX *1	In SMTP e-mail receive, an attached file cannot be stored in memory. • Cannot be stored in memory. • The number of items of acting receive data is the maximum, and an additional data cannot be stored.
89	NG89 XXXX *1	In SMTP e-mail receive, an error occurs in communication with the mail server. • Time-out occurs during e-mail receive.
90	NG90 XXXX *1	After reservation by re-operation of document filing, conversion for image send cannot be made.
91	NG91 XXXX *1 *2	Data cannot be written to the memory device when Scan To USB is executed. • The memory device is disconnected during writing to the memory device. • An error occurs due to a memory device trouble.
92	NG92 XXXX *1 *2	The USB device memory overflows during writing data into the memory device when "Scan to USB" is executed.
98	NG98 XXXX *1	The copy inhibit pattern is detected when scanning a document.
99	NG99 XXXX *1	A document which is inhibited to be copied such as a banknote is scanned.

*1: For a job status result in "Display in the column of result," "NG △△ XXXX" is displayed. "△△" is the code number.
For a communication result, "Communication error △△ (XXXX)" is displayed.

*2: The error code of Scan To USB is specified only in the job log.

- When the communication result is OK, the communication sub code 1 and the communication sub code 2 are "0000."
- Errors in ( ) are not used.

B. Communication report sub code 1

The communication report sub code 1 (upper 2 digits) are always indicated as "00."

C. Communication report sub code 2

Report code 2	Content of communication interruption	Send/Receive
1	Send length over	Send
2	EOL time up	Receive
3	Carrier detection time up	Receive
4	Not used	—
5	Time up in phase C (8 min)	Send
6	Memory image decode error	Receive
7	Memory image decode error	Send
8	Time up between frames in phase C (Report code is 0 or 16.)	Send/Receive
9	Not used	—
10	Not used	—
11	Polarity reversion detection	Receive
12	Invalid command reception	Receive
13	Time up (1-minute timer/6-second time)	Receive
14	PUT error	Receive
15	In V.34 mode, time up is generated when shifting from Primary to Control.	Receive
16	In V.34 mode, time up is generated when shifting from Control to Primary.	Receive
17	Command receive time-up from MFP controller	Receive
18	Not used	—
19	Not used	—
20	Polarity reversion detection	Send
21	Invalid command reception	Send
22	Fallback retry number over	Send
23	Command retry number resend over	Send
24	Time up (T5 timer)	Send
25	Time up (T5 timer) in V.34 mode	Send
26	In V.34 mode, time up is generated when shifting from Primary to Control.	Send
27	In V.34 mode, time up is generated when shifting from Control to Primary.	Send
28	Not used	—
29	Not used	—
30	A communication error is generated between MFP controller and Modem controller. (Report code is 0 or 16.)	—
31	DC current not detected (busy)	Send
32	Dial tone not detected (busy)	Send
33	Busy tone detection (busy)	Send
34	T0 time up (Remote machine not responding)	Send
35	T1 time up (Remote machine not responding)	Send
36	In dialing, polarity reversion detection (Remote machine not responding)	Send

Report code 2	Content of communication interruption	Send/Receive
37	Calling is not made (busy)<Collision detected (including CNG detection)>	Send
38	Not used	—
60	In resend of document filed data, an error occurs in decoding or coding.	Resend
61	In resend of document filed data, setting to inhibit resolution conversion is made. (The resolution after resend is set to be Enlarged.)	Resend
62	In resend of document filed data, rotation setting is made for data which cannot be rotated.	Resend
63	In resend of document filed data, data cannot be stored in HD after conversion of resolution for resend.	Resend
70	E-mail header acquisition error	E-mail receive
71	Time out occurs during e-mail receive.	E-mail receive
72	Receive reject occurs during e-mail receive.	E-mail receive
73	Network communication cannot be made due to port disable.	Network send
74	An authentication of the POP server is failed when POP before SMTP is enabled.	Network send
80	There is no attached file in received e-mail.	E-mail receive
81	The attached file of received e-mail is not of TIFF type which is supported.	E-mail receive
82	The TIFF type of the attached file in received e-mail cannot be recognized. ID error	E-mail receive
83	The TIFF type of the attached file in received e-mail cannot be recognized. Endian error	E-mail receive
84	The TIFF type of the attached file in received e-mail cannot be recognized. Version error	E-mail receive
85	The TIFF type of the attached file in received e-mail cannot be recognized. Tag data error	E-mail receive
86	The TIFF type of the attached file in received e-mail cannot be recognized. Tag parameter error	E-mail receive
87	The TIFF type of the attached file in received e-mail cannot be recognized. Header size error	E-mail receive
88	The TIFF type of the attached file in received e-mail cannot be recognized. Data error	E-mail receive
90	In e-mail receive, an attached file cannot be stored in memory. Memory over. Cannot be stored in memory.	E-mail receive
91	In e-mail receive, an attached file cannot be stored in memory. The file size is too great to be stored in memory.	E-mail receive
92	In SMTP e-mail receive, an attached file cannot be stored in memory. Cannot be stored in memory.	E-mail receive

When the sub code 2 is "08" or "30" and the communication report is "OK," the report code is "00" or "16."

4. Dial tone

When shipping from the factory, the dial tone detection when sending is set to Enable (changed from OFF to ON). When installing this machine, be sure to check and confirm that the dial tone is properly detected and the auto dial sending is enabled.

A. Check procedure

1) Check to confirm that the continuous buzzer sound is heard when the on-hook key is pressed. (Press the on-hook key again to cancel the buzzer sound.)
2) Change the mode to the direct send, set a sheet of send document, enter the destination number, and start sending. Before the destination is connected, scanning the document is started. (The send document is not scanned if the destination is erroneously entered or the line is busy.)
   If the continuous buzzer sound is not heard and the send document is not scanned when the on-hook key is pressed, change the setting of the following soft SW.
   SW53-4 (Dial tone detection): 1 (Yes) → 0 (No)

If facsimile communication cannot be executed normally through the IP telephone line, try the general telephone line.

[7] MACHINE OPERATION

1. System settings list

A. System settings (general) list

When the system settings are accessed with general rights, the following items appear. The factory default settings for each item are also shown. For items that can only be accessed with administrator rights.

NOTE: Depending on the machine specifications and peripheral devices installed, it may not be possible to use some settings.

Item	Factory default setting
■ List Print (User)	
● Sending Address List	
▶ Individual List	—
▶ Group List	—
▶ Program List	—
▶ Memory Box List	—
▶ All Sending Address List	—
■ Address Control	
● Direct Address/Program	
▶ Individual	
◆ Fax	
• Search Number	—
• Name	—
• Initial	—
• Index	—
• Fax No.	—
• Key Name	—
• Mode	Transmission Speed: 33.6 kbps International Correspondence Mode: None
▶ Group	
◆ Search Number	—
◆ Group Name	—
◆ Initial	—
◆ Index	—
◆ Address	—
◆ Key Name	—
▶ Program	
◆ Program Name	—
◆ Settings	
• Address	—
• Resolution	—
• Exposure	—
• Special Modes	—
▶ Modify / Delete	—
● F-Code Memory Box	
▶ Store	
◆ Polling Memory	
• Box Name	—
• Sub Address	—
◆ Confidential	
• Box Name	—
• Sub Address	—
• Print PIN	—
◆ Relay Broadcast	
• Box Name	—
• Sub Address	—
• Recipients	—
▶ Modify/Delete	
◆ Polling Memory	—
◆ Confidential	—
◆ Relay Broadcast	—
● Custom Index	
▶ User 1	—
▶ User 2	—
▶ User 3	—
▶ User 4	—
▶ User 5	—
▶ User 6	—
■ Fax Data Receive/Forward	
● Receive Mode	Auto Reception
● Fax Data Forward	—

B. System settings (administrator) list

When the system settings are accessed with administrator rights, the following items appear. The factory default setting for each item is also shown.

NOTE: Depending on the machine specifications and peripheral devices installed, it may not be possible to use some settings.

Item	Factory default setting
■ Operation Settings	
● Keys Touch Sound	
▶ Keys Touch Sound	Medium
▶ Keys Touch Sound at Initial Point	Disable
● Auto Clear Setting	60 sec.
▶ Cancel Auto Clear Timer	Disable
● Message Time Setting	6 sec.
● Display Language Setting	American English
● Disabling of Job Priority Operation	Disable
● Disabling of Bypass Printing	Disable
● Key Operation Setting	0.0 sec.
▶ Disable Auto Key Repeat	Disable
● Disabling of Clock Adjustment	Disable
● Disabling of Covers/Inserts Mode	Disable
● Customize Key Setting	
▶ Fax	
◆ Customize 1	Special Modes
◆ Customize 2	File
◆ Customize 3	Quick File
● Stop Key Operation	
▶ Operations Stopped	Copy and Document Filling Print
▶ Immediate Halt without Message	Disable
■ Device Control	
● Original Size Detector Setting	
▶ Original Detection Size Combination	Inch-1
▶ Cancel Detection at Document Glass	Disable
● Disabling of Document Feeder	Disable
● Original Feeding Mode	All Disable
● Disabling of Duplex	Disable
● Disabling of Large Capacity Cassette *1	Disable
■ Image Send Settings	
● Operation Settings	
▶ Default Display Settings	
◆ Mode	Fax
◆ Switch Automatically to Copy Mode Screen	Enable
▶ Initial Resolution Setting	
◆ Apply the Resolution Set when Stored	Disable
◆ Scanner	200 x 200 dpi
◆ Internet Fax *2	200 x 100 dpi

Item	Factory default setting
◆ Fax	Standard
▶ Default Exposure Settings	
◆ Exposure	Auto
◆ Original Image Type	Text
◆ Moiré Reduction	Disable
▶ Must Input Next Address Key at Broadcast Setting	Disable
▶ Scan Complete Sound Setting	Medium
▶ The Number of File Name/Subject/Body Keys Displayed Setting	6
▶ The Number of Direct Address Keys Displayed Setting	6
▶ Disable Switching of Display Order	Disable
▶ Hold Setting for Received Data Print	
◆ Received Data Hold	Disable
◆ Password Setting	—
▶ Settings to Disable the Registration of Destination	
◆ Disable Registering Destination from Operation Panel	
• Group	Disable
• E-mail	Disable
• Internet Fax *2	Disable
◆ Disable Registering Destination on Web Page	
• Group	Disable
• E-mail	Disable
• FTP	Disable
• Desktop	Disable
• Network Folder	Disable
• Internet Fax *2	Disable
• Fax	Disable
◆ Disable Registration Using Network Scan Tools	—
▶ Settings to Disable Transmission	
◆ Disable [Resend] on Fax/Image Send Mode	—
◆ Disable selection from the Address Book	
• E-mail	Disable
• FTP	Disable
• Desktop	Disable
• Network Folder	Disable
• Internet Fax *2	Disable
• Fax	Disable
◆ Disable Direct Entry	
• E-mail	Disable
• Internet Fax *2	Disable
• Fax	Disable
◆ Disable PC-Internet FAX Transmission *2	Disable
◆ Disable PC-Fax Transmission *2	Disable
■ Image Send Settings	
● Fax Settings	
▶ Fax Default Settings	
◆ Fax Own Name and Number Set	—
◆ Dial Mode Setting	Tone
◆ Auto Wake Up Print	Enable
◆ Pause Time Setting	2 sec.
◆ Speaker Settings	
• Speaker	Medium
• Ringer Volume	Medium
• Line Monitor	Medium
• Fax Receive Complete Signal	Volume: Medium; Tone Pattern: 3 Transmission Complete Sound Time Setting: 3 sec.
• Fax Send Complete Signal	Volume: Medium; Tone Pattern: 3 Transmission Complete Sound Time Setting: 3 sec.
• Fax Communication Error Signal	Volume: Medium; Tone Pattern: 3 Transmission Complete Sound Time Setting: Every 0.3 seconds
◆ Remote Reception Number Setting	5
◆ Original Print on Transaction Report	Print at Error
◆ Transaction Report Print Select Setting	
• Single Sending	Print Out Error Report Only
• Broadcasting	Print Out All Report
• Receiving	No Printed Report
• Confidential Reception	Print Out Notice Page
◆ Activity Report Print Select Setting	
• Auto Print at Memory Full	Disable
• Print Daily at Designated Time	Disable
◆ ECM	Enable
◆ Distinctive Ring Detection	Off
▶ Fax Send Settings	
◆ Auto Reduction Sending Setting	Enable
◆ Rotation Sending Setting	All Enable
◆ Quick On Line Sending	Enable
◆ Printing Page Number at Receiver	Enable
◆ Date/Own Number Print Position Setting	Outside the Original Image
◆ Registration of Own Name Select	—
◆ Recall in Case of Line Busy	Recall, Number of Times: 2, Interval: 3 min.
◆ Recall in Case of Communication Error	Recall, Number of Times: 1, Interval: 3 min.
▶ Fax Receive Settings	
◆ Number of Calls in Auto Reception	2
◆ Duplex Reception Setting	Disable
◆ Auto Receive Reduce Setting	Enable
◆ Print Style Setting	Auto Size Select
◆ Set the Telephone Number for Data Forwarding	—
◆ A3 RX Reduce	Disable
◆ Anti Junk Fax Setting	—
◆ Fax Output Settings	Varies depending on the machine configuration
▶ Fax Polling Security	
◆ Polling Security Setting	Enable
◆ Passcode Number Setting	—
■ List Print (Administrator)	
● Administrator Settings List	
▶ Copy	—
▶ Print	—
▶ Image Send	—
▶ Document Filing	—
▶ Security	—
▶ Common	—
▶ All Administrator Settings List	—
● Image Sending Activity Report *2	

Item	Factory default setting
▶ Image Sending Activity Report (Scanner)	—
▶ Image Sending Activity Report (Internet Fax)	—
▶ Image Sending Activity Report (Fax)	—
● Anti Junk Fax Number List	—
● Anti Junk Mail/Domain Name List *2	—
● Forward Table List *2	—
● Web Setting List	—
● Metadata Set List	—
■ Enable/Disable Settings	
● Image Send Settings	
▶ Disable Switching of Display Order	Disable
▶ Disable Scan Function	Disable
• PC Scan	Disable
• USB Memory Scan	Disable
▶ Settings to Disable the Registration of Destination	
◆ Disable Registering Destination from Operation Panel	
• Group	Disable
• E-mail	Disable
• Internet Fax	Disable
◆ Disable Registering Destination on Web Page	
• Group	Disable
• E-mail	Disable
• FTP	Disable
• Desktop	Disable
• Network Folder	Disable
• Internet Fax	Disable
• Fax	Disable
◆ Disable Registration Using Network Scan Tools	—
▶ Settings to Disable Transmission	
◆ Disable [Resend] on Fax/Image Send Mode	—
◆ Disable selection from the Address Book	
• E-mail	Disable
• FTP	Disable
• Desktop	Disable
• Network Folder	Disable
• Internet Fax	Disable
• Fax	Disable
◆ Disable Direct Entry	
• E-mail	Disable
• Internet Fax	Disable
• Fax	Disable
◆ Disable PC-Internet FAX Transmission *2	Disable
◆ Disable PC-Fax Transmission *2	Disable

*1: When a large capacity tray is installed.

*2: When the internet fax Expansion Kit is installed.

2. Transmittable original sizes

The following original sizes can be transmitted.

	Minimum original size	Maximum original size
Using the automatic document feeder	5-5/32 (width) x 5-1/2" (width) 131mm (width) x 140mm (length)	11-11/16" (width) x 31-1/2"* (length) (297 mm (width) x 800 mm* (length)) * Long originals can be transmitted.
Using the document glass	2-1/2 (width) x 2-1/2" (width) 64mm (width) x 64mm (length)	11-11/16" (width) x 17" (length) (297 mm (width) x 432 mm (length))

3. Automatic reduction of the transmitted image

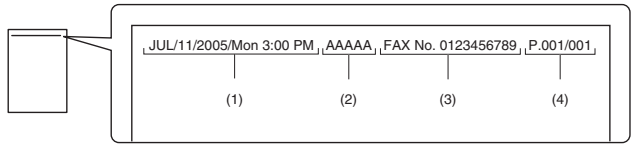
If the width of the transmitted image is larger than the width of the paper in the receiving machine, the image will be automatically reduced to fit the receiving machine's paper width.

Example: Reduced sizes and reduction ratios

Transmitted image width	Receiving machine's paper width	Reduced size	Ratio
A3	B4	B4	1: 0.84
11" x 17" (A3)	8-1/2" x 14", 8-1/2" x 11" (A4)	8-1/2" x 14", 8-1/2" x 11"R (A4R)	1: 0.71
B4	A4	A4R	1: 0.84

4. Adding your sender information to faxes (Own number sending)

You can have your sender information (date, time, sender name, sender fax number, number of pages) automatically added to the top center of each fax page you transmit.



1) Date, time: The date and time of transmission.
2) Sender name: The sender name programmed in the machine.
3) Sender fax number: The sender fax number programmed in the machine.
4) Page numbers: Page number / total pages

Information programmed in Own Number Sending

Date, time: Set or check the date and time in "Clock Adjust" in the system settings.

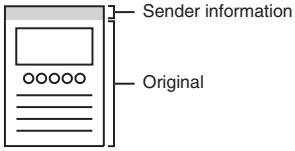
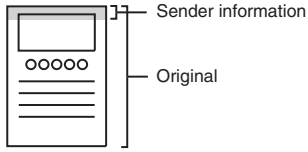
Sender name, sender fax number:
Program the sender name and fax number in "Fax Own Name and Number Set" in the system settings for fax.

Page numbers:
Select whether or not to include page numbers in "Printing Page Number at Receiver" in the system settings for fax (administrator). Page numbers appear in the format "page number / total pages".

Only the page number is printed when manual transmission or quick online transmission is used.

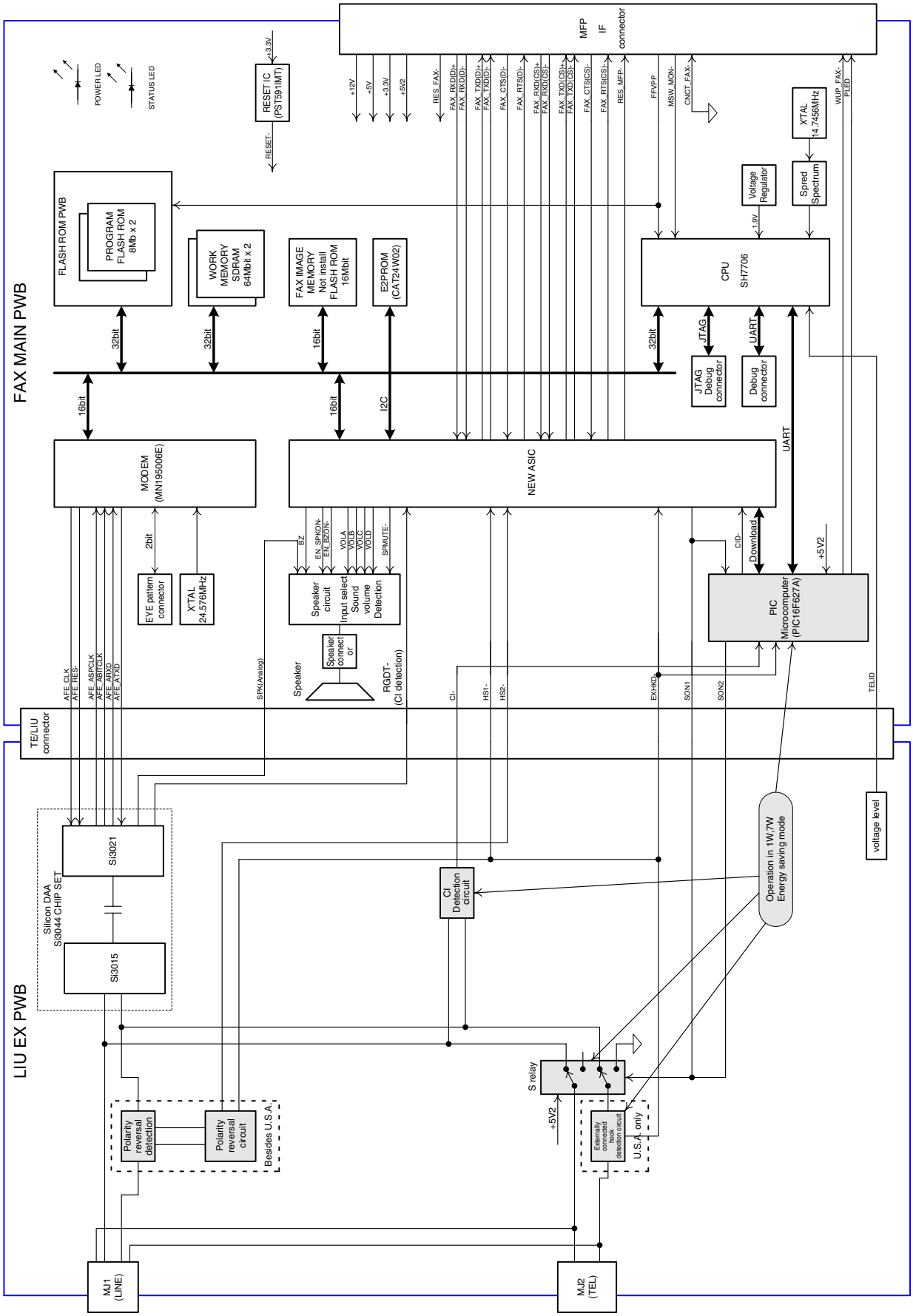
System Settings for Fax (Administrator): Date/Own Number Print Position Setting

This is used to set the position where the sender information is printed. The sender information can be printed outside the scanned original image or inside the scanned original image.

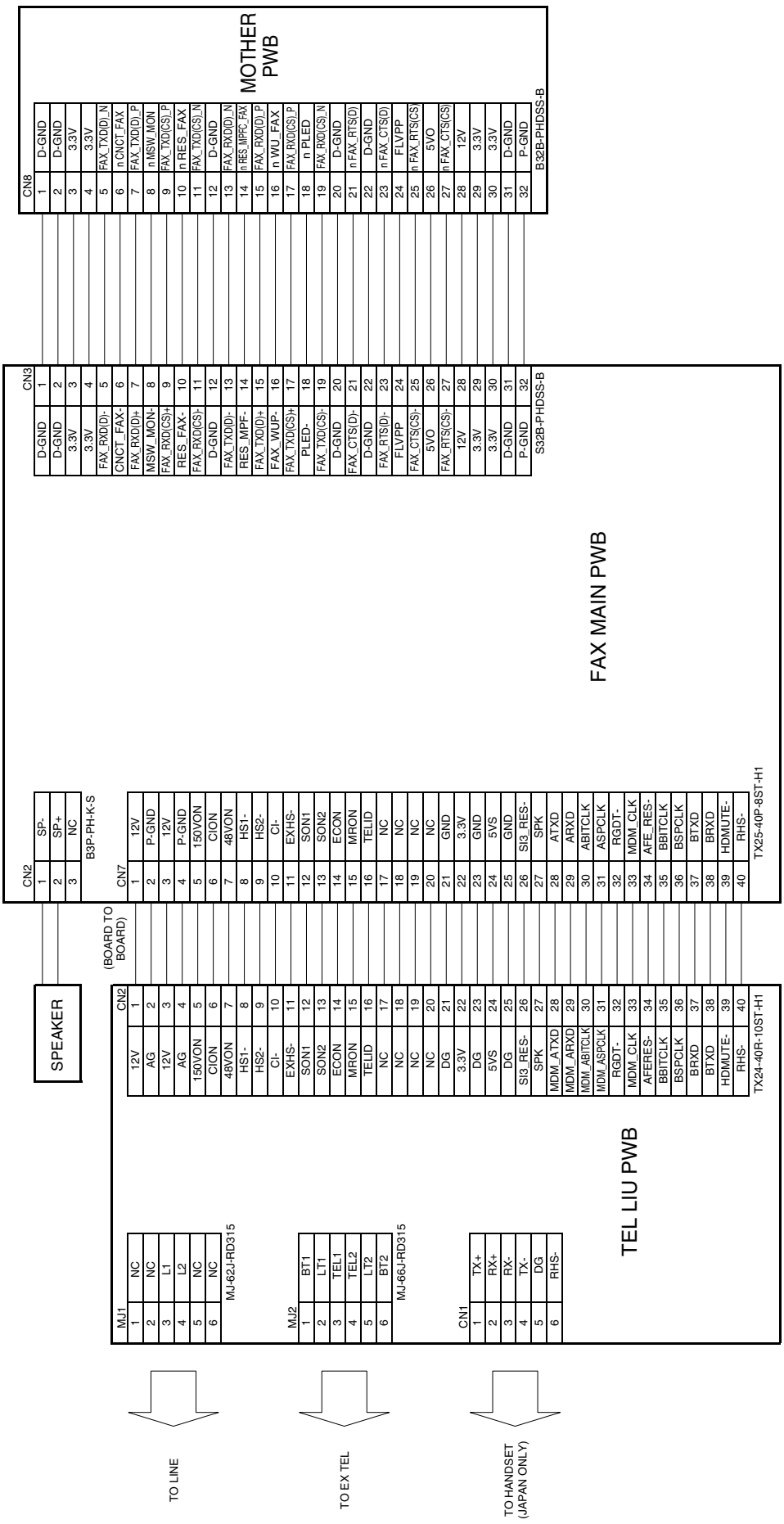
Outside scanned image (factory default setting)	Inside scanned image
	
The transmitted image length will be: length of sender information + length of original image. When the fax is printed by the receiving machine, it may be reduced or divided onto two pages.	The sender information is printed inside the original image, and thus the transmitted image length is the length of the original. Note that the sender information will overlap part of the original image (that part of the original image will not appear).

[8] ELECTRICAL SECTION

1. Block diagram



2. Actual wiring chart



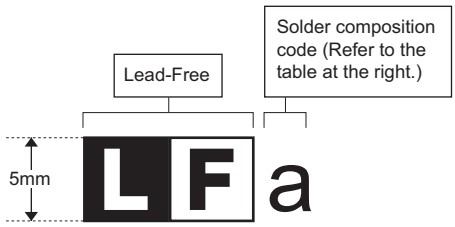
Memo

Memo

LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder.
The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn-Ag-Cu	a
Sn-Ag-Bi Sn-Ag-Bi-Cu	b
Sn-Zn-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu-Ni	n
Sn-Ag-Sb	s
Bi-Sn-Ag-P Bi-Sn-Ag	p

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.

Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommendable.

(2) NOTE FOR SOLDERING WORK

Since the melting point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.

If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)
"BATTERY DISPOSAL"
THIS PRODUCT CONTAINS A LITHIUM PRIMARY (MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE BATTERY FROM THE PRODUCT AND CONTACT YOUR LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES"
CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE) QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE AGENCE ENVIRONNEMENTALE LOCALE POUR DES INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET DE TRAITEMENT.

SHARP

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SHARP CORPORATION
Digital Document System Group
CS Promotion Center
Yamatokoriyama, Nara 639-1186, Japan
2006 January Printed in Japan